The Road Ahead...

...It's all about Ham Radio!

AES
Amateur Electronic Supply

HAM RADIO CATALOG

FALL/WINTER 2006

5710 W. Good Hope Rd.
Milwaukee, WI 53223
414-358-0333
1-800-558-0411
Fax 414-358-3337
Service 414-358-4087
milwaukee@aesham.com

28940 Euclid Ave.
Cleveland, OH 44092
440-585-7388
1-800-321-3594
Fax 440-585-1024
cleveland@aesham.com

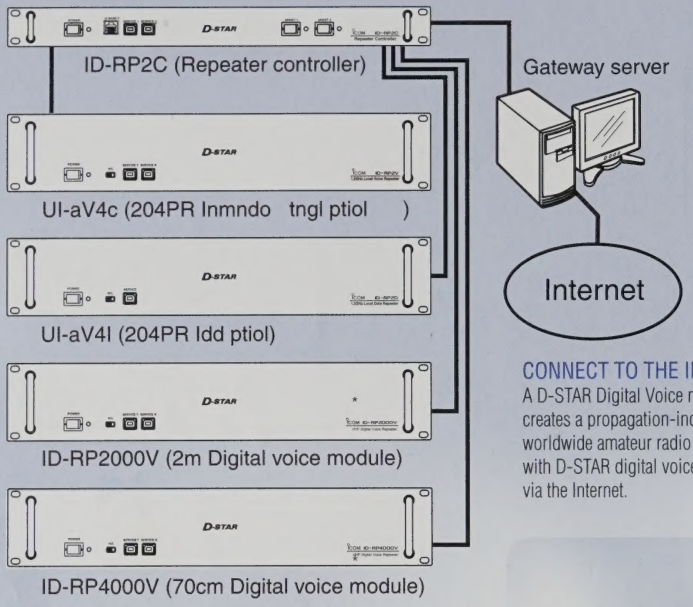
621 Commonwealth Ave.
Orlando, FL 32803
407-894-3238
1-800-327-1917
Fax 407-894-7553
orlando@aesham.com

4640 South Polaris Ave.
Las Vegas, NV 89103
702-647-3114
1-800-634-6227
Fax 702-647-3412
lasvegas@aesham.com

Store Hours
Mon–Fri • 9am to 5:30pm
Saturday • 9am to 3pm

1-800-558-0411
www.aesham.com

D-STAR REPEATER SYSTEM



Up to 4 modules can be connected to 1 ID-RP2C

CONNECT TO THE INTERNET

A D-STAR Digital Voice network creates a propagation-independent worldwide amateur radio network with D-STAR digital voice repeaters via the Internet.

ID-RP2C
REPEATER CONTROLLER

The cornerstone of the D-STAR repeater system. Handles up to four RF modules. Basic in-band or crossband operation. Linking capabilities through the internet and future 10GHz backbone products.

ID-RP2D
23CM DIGITAL DATA MODULE

Access point with a data rate of 128kbps. Depending on the system setup, set up an email and/or file server for EmComm support. Perfect for web applications or support via internet connection.

ID-RP2V
23CM DIGITAL VOICE MODULE

ID-RP4000V
70CM DIGITAL VOICE MODULE

ID-RP2000V
2M DIGITAL VOICE MODULE

Finally, commercially available crossband repeaters! With proper callsign programming in any D-STAR compatible mobile or portable, the Icom D-STAR repeaters will automatically route your signal to any other RF module connected to a common RP2. With simple repeater commands, you can direct your communications through any of the RF modules or across the world via the gateway.

DIGITAL

D-STAR: JOIN THE DIGITAL REVOLUTION!

D-STAR connections are completely transparent to your laptop or other network device. Why run cables for a temporary or portable installation when mobile rigs will do the job? Connect across miles instead of meters! Icom offers a variety of digital and digital upgradeable radios. Available now at AES.

ID-1
GO DIGITAL ON 1.2GHz

10 Watt | High Speed Digital Data, Digital Voice, Analog Voice (FM) | Wireless Internet/Network Capable | PC Control via USB port | Digital Callsign & Digital Code Squelch

ID-800H
GO DIGITAL ON 2m & 70cm

55 Watt VHF/50 Watt UHF | Wide RX: 118-173,230-549,810-999MHz* | Analog/Digital Voice & Data | Callsign Squelch | CTCSS & DTCS Encode/Decode w/Tone Scan

IC-2200H
DIGITAL UPGRADEABLE FOR 2m

65 Watt | 207 Alphanumeric Memories | Digital Voice & Data w/Optional UT-118 | Optional Callsign Squelch | CTCSS & DTCS Encode/Decode w/Tone Scan | Weather Alert

2m and 70cm digital voice meet Main Street, U.S.A.!

ID-RP2000V
ID-RP4000V

Meet the future of amateur radio, today. D-STAR repeater systems are coming to more locations around the country. Jump in! D-STAR forum: www.icomamerica.com/support/forums

D-PRS®

The low-speed data port found in Icom D-STAR handheld radios is compatible with a GPS NMEA data interface. With GPS data integrated into the D-STAR digital data stream, your location data is forwarded to the D-PRS server where gateway software connects you to the APRS® reporting system. The interface is built-in to D-STAR radios – no separate TNC and transceiver required!

DIGITAL SIGNALS = PIN-DROP CLARITY

Since D-STAR is fully digital at the terminal-to-terminal level, the network provides noise-free stable communications as if all of the D-STAR terminals are located in the same area, regardless of real geographical separation!

INTEROPERABILITY, CROSS BAND OPERATION

D-STAR digital voice radios can communicate even when they are on different bands. For example, a 2m DV radio can talk to a 70cm or 1.2GHz DV radio via repeater(s). Make D-STAR your new emergency communications standard.

THE FUTURE IS GLOBAL

Take your 2m/70cm nationwide... even worldwide! Icom D-STAR capable handhelds and mobiles, like the IC-U82 and IC-2200H shown below, now allow your local or regional communicatons to go global when used with these new D-STAR repeaters. It's a whole new ball game!

IC-V82 & IC-U82

DIGITAL UPGRADEABLE FOR 2m OR 70cm

7 Watt VHF or 5 Watt UHF ❙ 200 Alphanumeric Memories ❙ Digital Voice & Data w/Optional UT-118 ❙ Optional Callsign Squelch ❙ CTCSS & DTCS Encode/Decode w/Tone Scan ❙ Weather Alert

IC-91A & IC-91AD

ADVANCED ANALOG & DIGITAL DUAL BANDER

5 Watts 2m and 70cm ❙ 1300 Alphanumeric Memories ❙ Digital Voice/Data Ready (91AD) or Upgradeable w/ Optional UT-121 (91A) ❙ 495kHz - 999.990MHz* RX ❙ V/V, U/U or V/U ❙ Weather Alert ❙ Dual Watch ❙ Li-ion Power

ICOM®

*824-849, 869-894 (Approximately) Blocked.

©2006 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 8783

AES LOCATION MAPS 138
AES MANUFACTURER INFO 139
AES ORDER BLANK 134
AES POLICIES 135
AES PRICE GUIDE (by mfg. A-Z) 3-26
AES SALES STAFF 136
AES SERVICE DEPT/SHIPPING INFO 137
AES USED & DEMO EQUIPMENT 28, 29
RADIO COMPARISON CHARTS 53, 54, 55
FLORIDA HAMCATION 37
COMPARISON CHARTS 53, 54, 55

MANUFACTURERS

AIM ELECTRONICS 57, 107
ALAN BROADBAND 104
ALINCO 30, 31, 32, 46, 47, 121
ALPHA DELTA ..... 85, 108 , 110
AMECO 65
AMERITRON 56, 60, 102, 105, 108
AMPHENOL 107
ANTENEX 5
ANTENNA SPECIALISTS 90
ANTENNA SUPERMARKET 125
AOR 67, 122, 125
ARRL PRODUCTS 67, 110, 112, 113, 114, 115, 116
ARROW ANTENNA 91, 93
ARTSCI 69, 113
ASTRON 57
AUDIOVOX 125
AIM ELECTRONICS 57, 107
AVMAP 128
BMI 132
BELDEN 106
BENCHER 65, 110
BETTER RF COMPANY 65, 102
BOUNTY HUNTER 133
BUCKMASTER 88, 116
BUSHNELL 133
BUTTERNUT 92
CQ PUBLICATIONS 113, 114, 116
CABLE X-PERTS 106, 107, 109
CHANNEL MASTER 97
COAX SEAL 108
COAXIAL DYNAMICS 105
COBRA 117
COMET 70, 71, 72, 73, 108
COMMUNICATION OUTFITTERS 69
COMMUNICATIONS SPECIALISTS 66
CONNECT SYSTEMS INC (CSI) 69
CREATIVE SERVICES SOFTWARE (CSS) 68, 115
CROSS DEVICES (CRS) 108
DAIWA 31, 57, 105, 108
DALBANI 107
DAVIS 127
DCI 110
DIAMOND ANTENNA 57, 74, 75, 76, 77, 105, 108
ECG 97
ESP 63
EASY-UP 98
ELK ANTENNAS 91
EXCALIBUR 132, 133
GAP 63, 80
GARMIN 128
GENERAL ELECTRIC 124
GEAR KEEPER 69
GLEN MARTIN ENGINEERING 92
GROTHE ELECTRONICS 131
GROVE 116
GRUNDIG/ETON 122, 123
HAL 68
HARGER 109
HEIL SOUND 62, 113
HIGH SIERRA 90
HOUSE OF DEALS 107, 132
HUSTLER ANTENNAS 81, 82, 83, 117
HY-GAIN 86, 96
IBS 116, 124
ICC 69
ICOM CII, 1, CIII, CIV, 140, 34, 35, 36, 37, 42, 43, 44, 48, 49, 61, 66, 91, 92, 102, 118, 119, 121
IDIOM PRESS (LOGIKEY) 65
ISOTRON (BILAL) 87
K-COM 110
KANTRONICS 68
KENT KEYS 65
KENWOOD ..... CI, 33, 42, 48, 62, 107, 110
KESTER 131
KLEINHUIS 109
KOSS 131
KURANISHI 16
LDG ELECTRONICS 100, 101
LACROSSE 58, 126
LAKEVIEW CO 90
LARSEN 78, 79, 117
LIGHTWAVE 132
LOGSAT 116
M2 ANTENNA SYSTEMS 92, 97
MFJ .. 32, 56, 58, 59, 62, 63, 64, 67, 68, 69, 87, 89, 90, 91, 92, 93, 98, 99, 103, 104, 105, 108, 109, 110, 116, 125, 132
MAHA 58
MALDOL 70, 71, 72, 73
MEADOW RIDGE PRODUCTS 89
MIDLAND 62, 117, 119, 127
MIRACLE ANTENNA 93
MIRAGE 61
NCG 31, 58
NCS 66
NORCOMM 66
NUTS & VOLTS 116
OUTBACKER 91
PALOMAR ENGINEERS 98, 110, 123
PALSTAR 102, 103
PENETROX 108
PHILMORE 107
POLYPHASER 58, 109, 115
PRO AM/VALOR 84
QRZ 116
RCA 129, 132
RADIOWAVZ 88
SGC 61, 63, 98
SAMLEX AMERICA 57
SANGEAN 124
SCANCAT 131
SEQUOIA 116
SHAKESPEARE 107, 119
SMILEY ANTENNA 93
SOLARCON 92, 117
SONY 125
SYNTHETIC TEXTILES 89
TERK 129
TIMES MICROWAVE 106
TIMEWAVE 63, 68, 103
TRIPP LITE 58
US TOWER 94
UNIDEN 117, 118, 120, 121
UNIFIED MICROSYSTEMS (W9XT) 65, 68
UNIVERSAL TOWERS 95
VANCO 58, 105, 107, 130, 131
VANGORDEN ENGINEERING 89, 107
VECTRONICS 69, 98, 105, 110
VELLEMAN 129, 130, 131,133
VIBROPLEX 65
W2AU (UNADILLA) 88
W4RT 102
W5YI/GORDON WEST 111
WA1FFL (LADDER LOC) 89
WAHL CLIPPER CORP 131
WALNUT CREEK 116
WATSON GUPTILL 116
WELLER 130, 131
WEST MOUNTAIN RADIO 59, 67
WILEY 113, 116, 127, 128
WILSON 117
WINEGARD 129
YAESU 38, 39, 40, 41, 45, 46, 50, 51, 52, 61, 62, 66, 90, 97, 119, 122

PRODUCT TYPE

AIRCRAFT RADIOS 119
ATV TRANSMITTER 69
ACTIVE ANTENNAS 92
AMPLIFIERS/HF & ACC 60, 61
AMPLIFIERS/(VHF/UHF) & ACC 61
ANTENNA TUNE CONTROLLERS 90, 102
ANTENNAS, MOUNTS & ACC 38, 70–93, 125
ANTENNA TUNERS/AUTOMATIC 31, 38, 98, 99, 100, 101, 102
ANTENNA TUNERS/MANUAL 98, 99, 102
AUDIO CONSOLES/CONTROLLERS 101
ANTENNA WIRE/WEATHER PROTECTION .. 89, 106, 108
BALUNS/INSULATORS 85, 88, 89, 101
BATTERIES/CHARGERS/ANALYZER 58
BATTERY BACKUP POWER SYSTEM 59
BOOKS/SOFTWARE/MAPS 68, 111–116, 131
CB EQUIPMENT 83, 117
CLIMBING HARNESSES 92
CLOCKS 124, 126, 127, 132
COAX CONNECTORS/ADAPTERS 49, 107
COAX CABLE/LADDER LINE 89, 106
COAXIAL ANTENNA/MIC SWITCHES 31, 60, 66, 76, 85, 101, 108
CONTEST CARD (W9XT) 68
COPPERWELD ANTENNA WIRE 89
DX BEACON 69
D-STAR 43, 49, 66
DACRON/NYLON GUY ROPE 89
DIGITAL VOICE 67
DSP/NOISE REDUC/SPEECH ENHANC 63, 80
DUMMY LOADS 60, 76, 105
DUPLEXERS/TRIPLEXERS 76, 108
ELECTRONIC LAB KITS/OTHER KITS 69, 133
ENCODERS/DECODERS 66
FAMILY RADIO/GMRS 119
FILTERS/LOW & HIGH PASS/BANDPASS 33, 39, 110
FILTERS/TELEPHONE/TOROIDS 110
FLASHLIGHTS/SELF POWERED & LED 132
FREQUENCY COUNTER 104
GPS/APRS 128
GEAR KEEPER 69
HEADPHONES/EARPHONES 33, 49, 62, 131
HF RADIOS 30, 32, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44
HT/2M 30, 46, 47, 48, 50, 52
HT/220 MHz 30, 46
HT/440 MHz 30, 46, 47, 48, 50, 52
HT DUAL/TRI/QUAD BAND 30, 47, 48, 49, 51, 52
INTERCONNECTS 69
INTERNET LINKING 66
KEYS/KEYERS/PADDLES/READERS 64, 65
MARINE RADIOS/ANTENNAS 118, 119
METAL DETECTORS 133
MICROPHONES & ACC 33, 36, 39, 48, 49, 62
MICROPHONE AUDIO PROCESSOR 63
MOBILE 1.2 GHz 43
MOBILE 6M 30, 32
MOBILE 2M 30, 32, 42
MOBILE 220MHZ 30, 32
MOBILE 440MHz 30, 32
MOBILE MULTI-BAND . 30, 32, 33, 38, 39, 42, 43, 44, 45, 46
MOBILE MULTI-MODE 33, 38, 39, 43, 44
MULTI-MODE DATA CONTROLLERS 68
NIGHTLOGGER 69
PACKET/HF MODEM 68
PORTABLE PACKS 58, 69
POWER OUTLETS/PANELS 58, 59, 101
POWER PLUGS/ADAPTERS 49, 57, 58
POWER SUPPLIES/INVERTERS/BACKUP 31, 36, 56, 57
PREAMPLIFIERS 61, 92
QRP RADIOS 43
QSL CARD HOLDERS 69
RTTY TUNING CONTROLLER 68
RADIO SWITCHES & CONSOLES 66
REPEATERS 66
RECEIVERS/AIRCRAFT 121
RECEIVERS/COMMUNICATIONS 121, 122
RECEIVERS/EMERGENCY SELF POWERED 123
RECEIVERS/PC 121
RECEIVERS/SHORTWAVE 121, 122, 123, 124, 125
RECEIVERS/WIDE RANGE & MINI 31, 121, 122
RECEIVER/XM SATELLITE RADIO 123, 125
REMOTE CONTROLLED OUTLET 58
ROTORS/CABLE/ACC 96, 97, 106
SCANNERS/BASE MOBILE & HT 120, 121
SIRENS & HORNS 131
SOLDERING & ACCESSORIES 130, 131
SOUND CARD INTERFACES 67
SOUND LEVEL METER 130
SPEECH COMPRESSOR/PROCESSOR 39, 63
SPEAKERS/ENHANCER 33, 36, 40, 62, 63, 80
SPECTRUM DISPLAY 122
SPEED GUN 133
STICKY PAD 69, 133
SURGE/LIGHTNING PROTECTON 58, 60, 76, 85, 106, 109
SWR/WATTMETERS/ANALYZERS 31, 60, 101, 103, 104, 105
SWR/WATTMETER/TALKING 101
TV/STEREO ANTENNAS & ACCESSORIES .. 124, 128
TALKING CHESS SET 133
TEST EQUIPMENT 58, 59, 60, 104, 130
TOOLS 59, 106, 126, 130
TRANSVERTER (6M) 32
TOWERS/TRIPODS 94, 95, 98
VHF DATA RADIOS 68
VHF/UHF/SATELLITE RADIO 36
VLF CONVERTERS 123
VOICE KEYERS 65
WEATHER RADIOS/INSTRUMENTS 126, 127
WI-FI ANTENNA 67
XM RADIO TUNER/ANTENNA 125

CODES WITHIN THE PRICE GUIDE

(T) Item too large for ground shipment. Shipment by truck only. No COD, send payment in advance or use charge card for merchandise. Freight charges collected upon delivery.

Note: Charges for truck shipments from 1-99 lbs are running a minimum of $80.00, plus local destination charges. It is advisable to contact a local freight office for a quotation.

(D) DISCONTINUED by Manufacturer but available from stock in limited quantities when price guide was published.

(†) TEMPORARY LOW PRICE due to special purchase, over stock, etc. Quantities may be limited at this price.

(Δ) Item **not** discontinued by Manufacturer but probably won't be available from AES when present stock is gone.

All Prices and Specifications in this catalog are subject to change without notice. Due to foreign currency fluctuations, promotions, manufacturer's specials, etc. prices may vary, so please confirm prices with salesperson before ordering.

AMATEUR ELECTRONIC SUPPLY® is not responsible for typographical errors or omissions.

Copyright © 2006/2007 AMATEUR ELECTRONIC SUPPLY®

ADI (ADI)

		AES Price
MTG BKT	Mobile bracket; AR-147/247/447 .Δ	$ 5.99
PROG-47	PC prog soft/cable; AR-147/247/447 Δ	14.99
PWR CORD	DC cable; AR-147/247/447 .....Δ	4.99
SLC-22L	Leather case; PR-series .....D	2.99

AES (AES)

SP-N	1.6kw 2.5GHz type N surge protector ...	$ 39.99
SP-U	1.6kw 600MHz UHF surge protector	39.99
AP	Replacement arc-plug for SP-N/SP-U ...	9.99

AIM (AIM)

24-7735P	Coax stripper; RG-58/59/62	$ 23.99
24-7736P	Coax stripper; RG-59/6/8281	22.99
24-7739P	Coax stripper; RG-8/11/213	33.99
38-305	500ma 3/4.5/6/7.5/9/12vdc adapter	12.99
38-384	4A power supply, 5A surge	54.99

AOR (AOR)

AR-ONE*	Rcvr/restricted sales! special order	4499.99
AR-5000A+3B	10kHz-3GHz Rcvr/cell blkd spec order	2599.99
AR-5000A+3U*	Rcvr/restricted sales! spec order	2599.99
AR-5000AC*	Rcvr/restricted sales! special order	2749.99
AR-3000AB	.1-2036MHz dlx w/SSB/cell blkd D	999.99
SDU-5500	Spectrum disp unit/PC interfc D	849.99
SDU-5600	Spectrum disp unit/PC interface	1299.99
AR-8600 Mk II-B	.53M-2.04G base Rcvr/cell blkd	899.99
AR-8600 Mk II-U*	Rcvr/restricted sales! spec order	899.99
SDU-5500	Spectrum disp unit/PC interfc D	849.99
SDU-5600	Spectrum disp unit/PC interface	1299.99
AR-8200 Mk III-B	.5M-3G hand/SSB/cell blkd	569.99
AR-8200 Mk III-U*	Rcvr/restricted sales! spec order	579.99
LC-8200	Leather case	24.99
SC-8200P	Soft case	13.99
LA-350	3-30MHz indoor active loop rcv ant D	299.99
350M	.54-1.6MHz antenna element .....D	59.99
ARD-9000	Digital SSB interface .....D	299.99
ARD-9000 Mk 2	Digital SSB interface	359.99
ARD-9800	Digital SSB/SSTV interface	549.99
LA-380	.01-500MHz indoor active loop rcv ant	379.99

*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase unblocked models of AR-ONE/AR-3000/AR-5000/AR-8200/AR-8600 for official government or communications utility company use only. Mail or FAX purchase order to AES. Exports: inquire.

AOR - continued

		AES Price
9779	2007 hardcover Radio Amateur's HB w/CD	$ 59.95
9760	2007 softcover Radio Amateur's HB w/CD	44.95
5781	1970-74 QST on CD-ROM	39.95
5773	1975-79 QST on CD-ROM	39.95
5765	1980-84 QST on CD-ROM	39.95
5757	1985-89 QST on CD-ROM	39.95
5749	1990-94 QST on CD-ROM	39.95
8497	1995-99 QST on CD-ROM	39.95
9418	2000-04 QST on CD-ROM	39.95
5579	1995 ARRL Periodicals CD-ROM	19.95
6109	1996 ARRL Periodicals CD-ROM	19.95
6729	1997 ARRL Periodicals CD-ROM	19.95
7377	1998 ARRL Periodicals CD-ROM	19.95
7881	1999 ARRL Periodicals CD-ROM	19.95
8209	2000 ARRL Periodicals CD-ROM	19.95
8632	2001 ARRL Periodicals CD-ROM	19.95
8802	2002 ARRL Periodicals CD-ROM	19.95
9124	2003 ARRL Periodicals CD-ROM	19.95
9396	2004 ARRL Periodicals CD-ROM	19.95
9574	2005 ARRL Periodicals CD-ROM	19.95
0011	200 Meters & Down (early ham radio) .	12.00
9055	AC Power Interference Handbook 2nd Ed	29.95
9167	APRS Moving Hams on Radio & Internet	17.95
9450	Amateur Radio on the Move	19.95
9043	Antenna Book w/CD-ROM	44.95
0194	Antenna Compendium 1	10.00
2545	Antenna Compendium 2	14.00
5625	Antenna Compendium 5 w/software	20.00
7431	Antenna Compendium 6 w/software	22.95
8608	Antenna Compendium 7	24.95
9558	Basic Radio	29.95
9612	DXCC countries list	5.95
6354	DXing on the Edge	29.95
9388	Emergency Communication Handbook .	19.95
9531	Emergency Power for Radio Comms	19.95
8659	Extra Class License Manual	24.95
8888	Extra Q & A Manual	17.95
9000	FCC Rule Book	12.95
9205	General Class License Manual	19.95
9213	General Q & A Manual	15.95
9728	Getting Started with Ham Radio	19.95
9159	HF Digital Handbook 3rd edition	19.95
8268	Ham Radio FAQ	14.95
9639	Ham Radio License Manual (new ham)	24.95
8926	Hints and Kinks 16th edition	15.95
9361	Hints and Kinks 17th edition	17.95
8616	Image Communications Handbook	25.95
8314	Introduction to Morse Code CD's (2)	14.95
4920	Introduction to RF Design	39.95
1250	Log Book	7.95
9175	Low Power Communication 2nd edition	19.95
8977	Map of North America	15.00
9723	Marine Amateur Radio	12.95
7539	Minilog	4.95
9655	More QRP Power	19.95
7709	More Wire Antenna Classics	17.95
9140	ON4UN's Low Band DXing w/CD-ROM ..	39.95
9132	Operating Manual	25.00
9310	RF Amplifier Classics	19.95
6621	RF Exposure and You	22.95
6834	RFI Book	24.95
9582	2006/07 pocket size Repeater Directory	10.95
9590	2006/07 desktop edition Repeater Directory	15.95
7369	Satellite Anthology 5th edition	15.00
6583	Satellite Handbook	24.95

ARRL (ARR)

9779	2007 hardcover Radio Amateur's HB w/CD	$ 59.95
9760	2007 softcover Radio Amateur's HB w/CD	44.95
5781	1970-74 QST on CD-ROM	39.95
5773	1975-79 QST on CD-ROM	39.95
5765	1980-84 QST on CD-ROM	39.95
5757	1985-89 QST on CD-ROM	39.95
5749	1990-94 QST on CD-ROM	39.95
8497	1995-99 QST on CD-ROM	39.95
9418	2000-04 QST on CD-ROM	39.95
5579	1995 ARRL Periodicals CD-ROM	19.95
6109	1996 ARRL Periodicals CD-ROM	19.95
6729	1997 ARRL Periodicals CD-ROM	19.95
7377	1998 ARRL Periodicals CD-ROM	19.95
7881	1999 ARRL Periodicals CD-ROM	19.95
8209	2000 ARRL Periodicals CD-ROM	19.95
8632	2001 ARRL Periodicals CD-ROM	19.95
8802	2002 ARRL Periodicals CD-ROM	19.95
9124	2003 ARRL Periodicals CD-ROM	19.95
9396	2004 ARRL Periodicals CD-ROM	19.95
9574	2005 ARRL Periodicals CD-ROM	19.95
0011	200 Meters & Down (early ham radio) .	12.00
9055	AC Power Interference Handbook 2nd Ed	29.95
9167	APRS Moving Hams on Radio & Internet	17.95
9450	Amateur Radio on the Move	19.95
9043	Antenna Book w/CD-ROM	44.95
0194	Antenna Compendium 1	10.00
2545	Antenna Compendium 2	14.00
5625	Antenna Compendium 5 w/software	20.00
7431	Antenna Compendium 6 w/software	22.95
8608	Antenna Compendium 7	24.95
9558	Basic Radio	29.95
9612	DXCC countries list	5.95
6354	DXing on the Edge	29.95
9388	Emergency Communication Handbook .	19.95
9531	Emergency Power for Radio Comms	19.95
8659	Extra Class License Manual	24.95
8888	Extra Q & A Manual	17.95
9000	FCC Rule Book	12.95
9205	General Class License Manual	19.95
9213	General Q & A Manual	15.95
9728	Getting Started with Ham Radio	19.95
9159	HF Digital Handbook 3rd edition	19.95
8268	Ham Radio FAQ	14.95
9639	Ham Radio License Manual (new ham)	24.95
8926	Hints and Kinks 16th edition	15.95
9361	Hints and Kinks 17th edition	17.95
8616	Image Communications Handbook	25.95
8314	Introduction to Morse Code CD's (2)	14.95
4920	Introduction to RF Design	39.95
1250	Log Book	7.95
9175	Low Power Communication 2nd edition	19.95
8977	Map of North America	15.00
9723	Marine Amateur Radio	12.95
7539	Minilog	4.95
9655	More QRP Power	19.95
7709	More Wire Antenna Classics	17.95
9140	ON4UN's Low Band DXing w/CD-ROM ..	39.95
9132	Operating Manual	25.00
9310	RF Amplifier Classics	19.95
6621	RF Exposure and You	22.95
6834	RFI Book	24.95
9582	2006/07 pocket size Repeater Directory	10.95
9590	2006/07 desktop edition Repeater Directory	15.95
7369	Satellite Anthology 5th edition	15.00
6583	Satellite Handbook	24.95

ARRL - continued

		AES Price
8624	Simple and Fun Antennas for Hams	22.95
9620	Software Library for Hams	19.95
9647	Technician Q & A Manual	15.95
2701	Transmitter Hunting	24.95
9604	06/07 TravelPlus for Repeaters CD-ROM	39.95
3983	Understanding Basic Electronics	29.95
9078	VHF/UHF Antenna Classics	14.95
5218	Vertical Antenna Classics	12.00
9183	Vintage Radio	19.95
9264	VoIP and Amateur Radio	17.95
3657	W1FB's QRP Notebook	10.00
4483	Weather Satellite Handbook	20.00
7075	Wire Antenna Classics	14.00
5226	Radio Amateurs World Atlas	12.95
7717	World Azimuthal Map	15.00
2944	World Grid Locator Atlas	5.00
8804	World Robinson Map	15.00
8187	Yagi Antenna Classics	17.95

ATOC IRON HORSE (ATO)

IHF-12	12m 7' mobile antenna .....D	$ 7.99
IHF-30	30m 7' mobile antenna .....D	8.99
IHFM-12	12m 36" mini mobile antenna .....D	6.99
IHFM-15	15m 39" mini mobile antenna .....D	8.99
IHFM-30	30m 40" mini mobile antenna .....D	8.99
IHSB-4	Triangular stake bed mt/HD rt ang SO-239/¾-24 D	14.99

Alan Broadband (ALA)

Zap Checker/180	Transmitter/bug detector ..	$ 89.99
185	Dlx analog/dig transmitter/bug detector	159.99

ALINCO (ALI)

DJ-C7T	300mw cc size 2m/440 HT/lith ion/spkr	$169.99
EBP-58N	Extra lithion ion battery	37.99
EDH-32	Cigarette lighter cable	19.99
EME-18	Earphone	13.99
EME-24	Earphone/mic	39.99
EME-25	Curl cord earphone	14.99
EMS-60	Speaker/mic	41.99
ERW-4C	PC cable	39.99
ESC-38	Soft case	14.99
EDC-55	Drop-in cgr; EBP30/31/32N; G1T ...Δ	.19
EMS-50	Speaker/mic; DJ-C5T .....Δ	24.99
DJ-196T	5w 2m FM HT	119.99
DJ-296T	5w 220 FM HT	149.99
DJ-496T	5w 440 FM HT	149.99
DJ-596T MK II	5w 2m/440 HT/NiMH	209.99
EBP-50N	9.6v 700mah 5w NiMH battery ...	23.99
EBP-51N	9.6v 1500mah 5w NiMH battery .	37.99
EBP-56N	7.4v 1000mah lithion ion battery	49.99
EDC-111	Charger for EBP-56N	45.99
EDC-16B	Cigarette lighter cable w/filter	21.99
EDC-36	Angle plug power cable w/filter	24.99
EDC-37	13.8v power cable	7.99
EDC-43	Cig lighter cable	10.99
EDC-88	Quick charger; nicad battery packs	59.99
EDC-93	Extra wall charger	10.99
EDC-97	Quick charger; MiMH battery packs	70.99
EDH-30	Dry cell battery case	15.99
EJ-43U	Digital board; original DJ-596T only Δ	59.99
EJ-47U	Digital board; Mk II versions	179.99
EME-6	Earphone	10.99
EME-12	Headset w/earphone/mic/VOX	69.99
EME-13	Headset w/ear bud/mic/VOX	59.99
EME-15	Earphone/mic w/VOX	49.99
EME-20	Tie-pin mic & earphone	22.99
EMS-47	Spkr/mic w/volume control	24.99
ERW-4C	PC cable	39.99
ESC-36	Soft case for EBP-48N	13.99
SW-596	Windows prog software; DJ-596T .	32.99
DJ-V17T	5w 2m FM HT	139.99
EBP-63	7.4v 1100mah Li-Ion battery	51.99

Alinco - continued

	AES Price
EBP-64 7.4v 1600mah Li-Ion battery	55.99
EBP-65 7.2v 700mah NiMH battery	37.99
EBP-66 7.2v 2000mah NiMH battery	39.99
EDC-144 Rapid charger	69.99
EDH-34 Dry cell case	15.99
EDS-10 Mic/speaker cable	12.99
EDS-11 Clone cable	12.99
ERW-4C PC cable	39.99
ESC-41 Soft case	16.99
DJ-V5TH 5w 2m/440 FM HT	209.99
EBP-46N 9.6v 600mah 5w nicad battery	64.99
EDC-16B Cigarette lighter cable w/filter	21.99
EDC-36 Angle plug power cable w/filter	24.99
EDC-37 13.8v power cable	7.99
EDC-43 Cig lighter cable	10.99
EDC-91 Quick charger	59.99
EDH-29 Dry cell case for 4-AA's	12.99
EME-6 Earphone	10.99
EME-12 Headset w/earphone/mic/VOX	69.99
EME-13 Headset w/ear bud/mic/VOX	59.99
EME-15 Earphone/mic w/VOX	49.99
EME-20 Tie-pin mic & earphone	22.99
EMS-8Z Remote speaker/mic D	39.99
EMS-47 Spkr/mic w/volume control	24.99
ESC-35 Soft case for EBP-45N/46N	13.99
DJ-S11T 340mw 2m FM HT/battery holder	79.99
EDC-78 Wall charger; (not for alkalines)	7.99
EDH-18 12v to 5.5v DC/DC conv/cig plug	29.99
EME-6 Earphone	10.99
EME-12 Headset w/earphone/mic/VOX	69.99
EME-13 Headset w/ear bud/mic/VOX	59.99
EME-15 Earphone/mic w/VOX	49.99
EME-20 Tie-pin mic & earphone	22.99
EMS-47 Spkr/mic w/volume control	24.99
ESC-27 Soft case	16.99
DJ-S40T 500mw 440 FM HT/battery holder	89.99
EBP-52N 3.6v 500mah NiMH battery	37.99
EBP-53N 6v 500mah NiMH battery	45.99
EBP-54N 3.6v 1500mah NiMH battery	49.99
EDC-37 13.8v power cable	7.99
EDC-43 Cig lighter cable	10.99
EDC-105 Drop-in NIMH battery cgr, less ps	24.99
EDC-93 Wall ps for EDC-105	10.99
EDH-31 Dry cell battery case	12.99
EME-6 Earphone	10.99
EME-12 Headset w/earphone/mic/VOX	69.99
EME-13 Headset w/ear bud/mic/VOX	59.99
EME-15 Earphone/mic w/VOX	49.99
EME-20 Tie-pin mic & earphone	22.99
EMS-8Z Remote speaker/mic D	39.99
EMS-47 Spkr/mic w/volume control	24.99
ESC-37 Soft case	13.99
DJ-S45T 1w 440 FM HT w/alkaline case	119.99
EME-6 Earphone	10.99
ERW-4C PC cable	39.99
ESC-40 Soft case	16.99
EDH-27 Dry cell case w/charger; DJ-X2T Δ	4.99
EDH-28 DC/DC converter w/cig plug; DJ-X2T D	4.99
DJ-X3T .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	159.99
EBP-52S 3.6v 500mah NiMH battery	37.99
EDC-105 Drop-in NiMH battery cgr, less ps	24.99
EDC-93 Wall ps for EDC-105	10.99
EDH-31S Dry cell battery case	12.99
ERW-4C PC cable	39.99
ESC-37 Soft case	13.99
DJ-X7T .1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	169.99
EBP-58N Extra lithion ion battery	37.99
EDH-32 Cigarette lighter cable	19.99
EME-18 Earphone	13.99
EME-25 Curl cord earphone	14.99
ERW-4C PC cable	39.99

Alinco - continued

	AES Price
ESC-38 Soft case	14.99
DJ-X2000T .1-2149MHz receiver/cell blocked	499.99
EBP-34N 4.8v 1200mah nicad battery D	69.99
EBP-37N 4.8v 700mah nicad battery	34.99
EDC-16B Cigarette lighter cable w/filter	21.99
EDC-36 Angle plug power cable w/filter	24.99
EDC-37 13.8v power cable	7.99
EDC-43 Cig lighter cable	10.99
EDC-88 Quick charger; nicad battery packs	59.99
EDH-16 Dry cell battery case	12.99
EME-6 Earphone	10.99
ERW-4C PC cable	39.99
ESC-28 Soft case for EBP-33N D	6.99
ESC-29 Soft case for EBP-37N	13.99
ESC-30 Soft case for EBP-34N D	8.99
DR-M06TH 20w 6m FM Xcvr/encoder	259.99
MB-130 Extra mobile bracket	19.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	10.99
DR-135T Mk II Black 50w 2m FM Xcvr	169.99
DR-235T Black 25w 220 FM Xcvr	249.99
DR-435T Mk II Black 35w 440 FM Xcvr	269.99
EDC-37 13.8v power cable; ignition on/off	7.99
EDC-43 Cig lighter cable; ignition on/off	10.99
EJ-41U 1200/9600 TNC unit	129.99
EJ-47U Digital board; Mk II versions	179.99
ERW-4C PC cable	39.99
MB-130 Extra mobile bracket	19.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	10.99
SW-620 Windows programming software	32.99
DR-135TP Mk II Blk 50w 2m FM/1200/9600 TNC	269.99
EDC-37 13.8v power cable; ignition on/off	7.99
EDC-43 Cig lighter cable; ignition on/off	10.99
EJ-47U Digital board; Mk II versions	179.99
ERW-4C PC cable	39.99
MB-130 Extra mobile bracket	19.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	10.99
SW-620 Windows programming software	32.99
DR-620T 50/35w 2m/440 FM Xcvr	339.99
DR-635T 50/35w 2m/440 FM Xcvr	369.99
EDS-9 Separation kit	45.99
EJ-47U Digital board for DR-620T	179.99
EJ-50U TNC unit for DR-620T	129.99
ERW-4C PC cable	39.99
MB-130 Extra mobile bracket	19.99
HK-130 Hardware kit for MB-130	4.99
PC-15B Extra DC cable	10.99
SW-620 Windows programming software	32.99
EDS-8 Adapter; EMS-14 w/DR-140/605TQ Δ	14.99
DX-70TH Comp HF Xcvr/100w 6m/mob bkt	749.99
DM-330MVT 30A switching ps/meter/32A surge	179.99
EBC-8 Front control head bracket	15.99
EBC-9 Extra mobile bracket	32.99
EDS-5 5' microphone extension cable	36.99
EDS-6 15' remote cable	68.99
EDX-2 160-10m 200w wire auto tuner	319.99
EMS-14 Desk top microphone	114.99
PC-25 Extra DC cable	35.99
DX-77T 160-10m HF Xcvr	699.99
DM-330MVT 30A switching ps/meter/32A surge	179.99
EDS-5 5' microphone extension cable	36.99
EDX-2 160-10m 200w wire auto tuner	319.99
EMS-14 Desk top microphone	114.99
PC-25 Extra DC cable	35.99

ALPHA DELTA (ALP)

	AES Price
ATT-3G50 200w 3GHz type N surge protector	$ 59.99
ATT-3G50-HP 2kw 3GHz type N surge protector	59.99
ATT-3G50U 200w 500MHz UHF surge protector	49.99
ATT-3G50U-HP 2kw 500MHz UHF surge protector	49.99

Alpha Delta - continued

	AES Price
ATT/3G50 Extra 200w arc-plug cartridge	14.99
ATT-HP/3G50HP Extra 2kw arc-plug cart	14.99
Delta-2 500 MHz 2-pos coax switch/protector D	49.99
Delta-2B 500 MHz 2-pos coax switch/protector	59.99
Delta-2/N 1.3 GHz 2-pos N switch/protector D	64.99
Delta-2B/N 1.3 GHz 2-pos N switch/protector	75.99
Delta-4 500 MHz 4-pos coax switch/protector D	79.99
Delta-4B 500 MHz 4-pos coax switch/protector	89.99
Delta-4/N 1.3 GHz 4-pos N switch/protector D	89.99
Delta-4B/N 1.3 GHz 4-pos N switch/protector	99.99
D-4 Extra arc-plug; Delta-2/2N/4/4N	9.99
Delta-C Kit w/ctr ins/2 end ins/static protect	29.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Delta-CIN Antenna end insulator each	1.99
DX-80 80m 134' complete dipole antenna	70.99
DX-40 40m 67' complete dipole antenna	70.99
DX-40/20 40/20m 40' low profile dipole ant D	89.99
DX-20 20m 34' complete dipole antenna	70.99
DX-A 160-80-40m twin sloper antenna	100.99
DX-B 160-80-40-30m 60' sloper ant	110.99
DX-CC 80-10m 5-band 82' no trap, no tuner dipole	160.99
DX-DD 80/40m 82' Delta Dipole antenna	130.99
DX-EE 40-10m 4-band 40' no trap, no tuner dipole	140.99
DX-LB 160-80-40m 100' shortened dipole	160.99
DX-LB Plus 160/80/40/20/15/10m 100' short dip	190.99
DX-SWL AM broadcast-13m 60' SWL sloper ant	120.99
DX-Ultra AM broadcast-30MHz 80' SWL dipole	160.99
SEP Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Pathfinder 1.8-30Mhz+6m dig auto ant tuner Δ	199.99
Basic Technology Amateur Radio video & book Δ	6.99

AMECO (AME)

CODE COURSES - CASSETTE TAPES

100-T Junior code tape, 0-7½ wpm Δ	$ 3.99

CODE PRACTICE OSCILLATORS & CODE KEYS

K-1 Bakelite type key	$ 10.95
K-4R Brass type key	17.95
OCM-2K Code oscillator & CW monitor kit	19.99
OCM-2W Wired oscillator & CW monitor	29.99

PREAMPLIFIERS

TPA HF receive preamp & indoor active ant	$ 79.99
P-9T Power supply for TPA	9.99
PT-3 2-54 MHz transceiver preamp	139.99
P-12T Power supply for PT-3	9.99

FILTERS

HP-75T 75 ohm high-pass filter	$ 14.99
HP-300T 300 ohm high-pass filter Δ	9.99

AMERITRON (AMR)

AL-80B 1kw PEP out linear amp (3-500Z)	1299.99
AL-82 1.5kw PEP out linear amp (2 3-500Zs)	2299.99
AL-572 1.3kw PEP out linear amp (4 572Bs)	1399.99
AL-800 1250w PEP out linear (3CX800A7)	1699.99
AL-800H 1.5kw PEP out amp (2 3CX800A7)	2499.99
AL-811 600w PEP out linear amp (3 811As)	669.99
AL-811H 800w PEP out linear amp (4 811As)	799.99
AL-1200 1.5kw PEP out linear (3CX-1200A7)	2349.99
AL-1500 1.5kw out linear amplifier (8877)	2699.99
ALS-500M 500w PEP out solid state mob amp	749.99
ALS-500RC Remote head; sn 13049 & up	49.99
SPS-75 75A switching power supply w/fan	359.99
ALS-600 600w PEP out solid state amp w/ps	1129.99
ALS-600S 600w PEP out solid state amp/switching ps	1249.99
ARB-704 Amplifier Xcvr interface buffer	59.99
PNP-5M Plug & play cable; FT-847	17.99
PNP-7D Plug & play cable; TS-570S/870S/2000	17.99
PNP-8D Plug & play cable; FT-920/1000 series	17.99
PNP-8M Plug & play cbl; FT-817/840/857/897	17.99
PNP-8MK Plug & play cable; TS-480	17.99
PNP-13D Plug & play cable; IC-706/7000	17.99
PNP-35 Plug & play cable; FT-100 series	17.99

Ameritron - continued

	AES Price
ARB-704I2 Amp Xcvr interface/cbl; IC-706/7000	59.99
ATP-100 Amplifier tuning pulser	59.99
ATP-102 Deluxe amplifier tuning pulser	69.99
ATR-20 1.2kw PEP antenna tuner	429.99
ATR-30 3kw PEP antenna tuner	559.99
ADL-1500 1.5kw dummy load with oil	74.99
ADL-2500 2.5kw dummy load with fan	189.99
ICP-120 120v inrush protector	79.99
ICP-240 240v inrush protector	79.99
AWM-30 3kw PEP SWR/wattmeter/rem sens	149.99
AWM-35 3kw PEP mobile SWR/wattmeter	159.99
QSK-5 Stand alone T/R switch	339.99
QSK-5PC PC board kit; T/R switch	259.99
CF-5 Cooling fan for QSK-5	39.99
RCS-4 4-pos wireless remote coax switch	139.99
RCS-8V 160-2m 5-pos remote coax switch	149.99
RCS-8VN 160-2m 5-pos N rem coax switch	159.99
Note: RCS-8V/VN require 8-wire control cable.	
RCS-10 DC-100MHz 8-pos remote coax switch	169.99
Note: RCS-10 requires 4-wire control cable.	

ANTENEX (ANX)

AB-FT 118-896MHz ¼ wave NMO whip	$ 16.99
AB-SCANC VHF/UHF/800MHz NMO mob scan ant	29.99
BB-1442N 144-174 2.4db no gnd plane NMO mob	39.99
BB-1443 144-174MHz 3db 49" NMO mobile	39.99
BB-4303 430-450 3db 11 13/16" NMO mobile	34.99
CB-144/440C 2m/440 2/5db 36" NMO mobile	49.99
CWB-1443 Self-tuning 144-156 3db NMO mob	49.99
CWB-4405C Self-tuning 440-470 5db NMO mob	49.99
FG-1440 2m 92" fg unity gain N base ant	119.99
FG-1443 2m 107" fg 3db N base antenna	199.99
FG-4403 440-450 44" fg 3db N base ant	149.99
FG-4405 440-450 76" fg 5db N base ant	199.99
FM-2 Heavy duty mg bkt pair for FG-series	29.99
GB-8PSTI NMO mag mt w/coax & teflon PL259	29.99
LBMB-9034 Mirror mt ¾" hole L-bracket	10.99
MB-8PST NMO hole mt w/coax & teflon PL259	15.99
TM8-PST Chrome NMO mini trunk mt/coax/PL259	29.99
TRABT-1420 142-164 Phantom whipless NMO	59.99
TRAB-4303 430-450 3db Phantom whipless NMO	29.99
VTPM NMO mt;up to 1" thick plate (UHF barrel)	15.99
Y-1363 136-150MHz 3el 7.1db gold N beam	119.99
Y-1365 136-150MHz 5el 9.2db gold N beam	169.99
Y-4303 430-450 3el 7.1db gold welded N beam	99.99
Y-4305 430-450 5el 9.2db gold welded N beam	129.99

Antenna Specialists (ASP)

APR143 2m 23" on glass cell look-alike ant	$ 74.99
APS151 2m 3db 33" on glass antenna	69.99
KAV-353 On glass replacement mtg kit	13.99

Antenna Supermarket (ANT)

Eavesdropper* 60-11m trap dipole SWL ant	$ 89.99
*Specify **SO-239** or **twin**-lead	

ARROW Antenna (ARA)

146/437-10 3 el 2m/7 el 440 handheld beam	$ 73.00
146/437-10BP 3el 2m/7el 440 HH split bm beam	79.00
10w duplexer (installs in boom) w/BNC	59.00
10w **duplexer** (installs in boom) w/**SMA**	64.00
OSJ-146/440 2m/440 57.5" J-pole antenna	39.99

ARTSCI (ART)

Lost Users Manuals	$ 19.95
Repeater Mapbook 12th edition	14.99

ASTRON (ASR)

RS-4L 3A ps, 4A surge, w/cig lighter socket	$ 49.99
RS-7A 5A power supply, 7A surge	59.99
RS-10A 7.5A power supply, 10A surge	69.99
RS-12A 9A power supply, 12A surge	79.99
RS-12S 9A ps, 12A surge, w/speaker	89.99

Astron - continued

	AES Price
RS-20A 16A power supply, 20A surge	99.99
RS-35A 25A power supply, 35A surge	149.99
RS-35A/220V 220v 25A ps, 35A surge Δ	149.99
RS-50A 37A power supply, 50A surge	219.99
RS-70A 57A power supply, 70A surge	279.99
RS-20M 16A ps w/meters, 20A surge	119.99
RS-35M 25A ps w/meters, 35A surge	169.99
RS-50M 37A ps w/meters, 50A surge	239.99
RS-70M 57A ps w/meters, 70A surge	299.99
VS-20ML Variable 16A ps/meters, 20A surge	139.99
VS-35M Variable 25A ps/meters, 35A surge	199.99
VS-50M Variable 37A ps/meters, 50A surge	259.99
RM-35M 25A rack mt ps/meters, 35A surge	259.99
RM-50M 37A rack mt ps/meters, 50A surge	299.99
RM-60M 50A rack mt ps/meters, 55A surge	389.99
SS-25 20A switching ps, 25A surge	119.99
SS-25M 20A switching ps/meters, 25A surge	139.99
SS-30 25A switching ps, 30A surge	129.99
SS-30M 25A switching ps/meters, 30A surge	149.99
N2412-12 10A 22-32vdc to 13.8vdc converter	59.99
N2412-24 20A 22-32vdc to 13.8vdc converter	89.99

AvMap (AVM)

G-4T Geosat 4 GPS w/THD7A/TMD700A cable	$849.99

BMI (BMI)

972AD 14" 12/24-hour wall clock	$ 32.99
973A 12" 24-hour wall clock	49.99

B & W (B&W)

AC-1.8-30 Continuous 1.8-30 MHz vee ant	$249.99
AP-10B 51" portable 40/20/15/10/6/2m ant	89.99
BWD-20 14-30 MHz 20' folded dipole	239.99
BWD-45 7-30 MHz 45' folded dipole	239.99
BWD-65 4-30 MHz 65' folded dipole	249.99
BWD-90 1.8-30 MHz 90' folded dipole	249.99
FDMK Mtg kit; folded dipole w/3 pole installation	45.99

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216	RG-174 (sub-miniature)	per ft.	$ .44
8216		**100** ft. Roll	42.99
8216		**500** ft. Roll	149.99
8216		**1000** ft. Roll	279.99
8240	RG-58U (solid center)	per ft.	.46
8240		**100** ft. Roll	44.99
8240		**500** ft. Roll	159.99
8240		**1000** ft. Roll	299.99
8259	RG-58AU (stranded center)	per ft.	.50
8259		**100** ft. Roll	48.99
8259		**500** ft. Roll	164.99
8259		**1000** ft. Roll	299.99
8219	RG-58AU (stranded, foam)	per ft.	.46
8219		**100** ft. cut	44.99
8219		**500** ft. Roll	169.99
8219		**1000** ft. Roll	309.99
8262	RG-58CU (non-contaminating)	per ft.	.52
8262		**100** ft. cut	49.99
8262		**500** ft. Roll	214.99
8262		**1000** ft. Roll	399.99
9258	RG-8X (stranded, foam)	per ft.	.59
9258		**100** ft. cut	54.99
9258		**500** ft. Roll	199.99
9258		**1000** ft. Roll	369.99
8237	RG-8U	per ft.	.99
8237		**100** ft. Roll	94.99
8237		**500** ft. Roll	369.99
8214	RG-8U (foam)	per ft.	.94
8214		**100** ft. Roll	89.99
8214		**500** ft. Roll	419.99

Belden - continued

			AES Price
8214		**1000** ft. Roll	799.99
9913	RG-8U (low loss)	**100** ft. Roll	94.99
9913		**250** ft. Roll	199.99
9913		**500** ft. Roll	374.99
9913F7	RG-8U (low loss, flexible)	per ft.	1.24
9913F7		**100** ft. Roll	119.99
9913F7		**250** ft. Roll	244.99
9913F7		**500** ft. Roll	439.99
8267	RG-213 (non-contaminating)	per ft.	1.29
8267		**100** ft. cut	124.99
8267		**500** ft. Roll	549.99

75 OHM COAXIAL CABLE

8241	RG-59U (73 ohm, solid center)	per ft.	$ .50
8241		**100** ft. Roll	47.99
8241		**500** ft. Roll	142.99
8241		**1000** ft. Roll	274.99
9248	RG-6U (75 ohm, solid center)	per ft.	.54
9248		**1000** ft. Roll	399.99
8238	RG-11 (75 ohm, stranded center)	per ft.	1.39
8238		**100** ft. cut	129.99
8238		**500** ft. Roll	524.99
8213	RG-11 (75 ohm, solid, foam)	per ft.	1.34
8213		**100** ft. cut	124.99
8213		**500** ft. Roll	499.99

ROTOR CABLE

8484	4-wire; 4-20 gauge	per ft.	$ .47
8484		**100** ft. cut	41.99
8484		**500** ft. Roll	189.99
8484		**1000** ft. Roll	359.99
8448	8-wire; 2-18, 6-22 gauge	per ft.	.54
8448		**100** ft. cut	49.99
8448		**500** ft. Roll	209.99
8448		**1000** ft. Roll	399.99
9405	8-wire; 2-16, 6-18 gauge	per ft.	1.19
9405		**100** ft. cut	114.99
9405		**500** ft. Roll	484.99
9405		**1000** ft. Roll	919.99

COPPERWELD ANTENNA WIRE

8000	No. 14 stranded antenna wire	per ft.	$ .50
8000		**100** ft. Roll	43.99
8000		**1000** ft. Roll	339.99

No. 8 ALUMINUM GROUND WIRE

8018	Multiples of **50** ft.	each	$ 26.99

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

FOAM COAX w/PL-259s ON BOTH ENDS

9354 50' RG-8U foam	$ 96.99
9355 75' RG-8U foam	126.99
9356 100' RG-8U foam	146.99

BELMERIT (BLM)

DM-80 Credit card size multimeter w/case Δ	$ 19.99

BENCHER (BEN)

BY-1 Iambic keyer paddle w/black base	$109.99
BY-2 Iambic keyer paddle w/chrome base	129.99
BY-3 Iambic keyer paddle, gold plated Δ	299.99
BY-4 Iambic paddle/blk base/gold components	169.99
170-82 Mercury paddle drop ship	449.99
ST-1 Single lever keyer paddle, black base	109.99
ST-2 Sgl lever kyr paddle, chrome base	129.99
RJ-1 Dlx hand key w/navy knob/black base	105.99
RJ-2 Dlx hand key w/navy knob/chrome base	129.99
YA-1 1kw low pass filter	85.99

BETTER RF (BET)

706 Tune Control for IC-706 series/IC-718	$ 32.99

Better RF - continued

		AES Price
I-Mate	Msg acc; 746PRO/756PRO II/III/7800	74.99
Yae Tune Control	for FT-100/857/897 series .	44.99

Bounty Hunter (BOU)

Fast Tracker	Metal detector/2-tone target ID	$ 99.99
Tracker IV	Metal detector/3-mode	129.99
Quick Draw II	Metal detector/full motion	229.99
Sharp Shooter II	Metal detector/LCD readout	299.99
Land Star	Metal detector/3-tone audio discrim	349.99
Land Ranger	Metal detector/programmable .	449.99
Time Ranger	Metal detector/top-of-the-line .	549.99
Carry Bag	For Bounty Hunter metal detectors	29.99
10" Coil	10" magnum coil; adds depth	49.99

BUCKMASTER (BUC)

HamCall	CD-ROM ham listings	$ 50.99
OCF	6-band 300w 135' off-center-fed dipole	189.99

BUSHNELL (BUS)

10-1911	Velocity sports speed gun	$ 99.99
13-0430	4x30 LiteVision compact binoculars Δ	6.99
13-1226	12x25 camo FRP compact binocs Δ	12.99
13-1250	12x50 wide angle Powerview binocs Δ	37.99
13-2514	8x21 black compact binoculars ...Δ	8.99
13-3410	7x35 Falcon binoculars .....Δ	16.99
26-3150	Night Vision 3.1x50 binocular .....Δ	369.99
78-0040	90mm refractor telescope .....D	329.99
78-0101	1.25" 9mm Kellner eye; 0040/6000/8000 Δ	19.99
78-0200	4.5" reflector telescope .....D	249.99
78-2010	4.5" reflector telescope .....Δ	129.99
78-2061	20-60x60 spotting scope w/tripod Δ	39.99

BUTTERNUT (BUT)

Skyhawk 3X10	Triband 10 el, 24' beam w/bauln *	$999.99

*Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.

HF-6VX	80/40/30/20/15/10m 26' vert ant	349.99
HF-9VX	80/40/30/20/17/15/12/10/6m 26' vert	399.99
A17-12	17 & 12m kit for HF-6VX	65.99
CPK	Counterpoise kit	139.99
MPS	Mounting post sleeve	12.99
RMK-II	Roof mounting kit w/radials	179.99
STR-II	Radial kit only	129.99
TBR-160S	160m resonator	139.99
HF-2V	80/40m 32' vertical	269.99
30-MRK	30m resonator for HF-2V .....Δ	99.99
TBR-160S	160m resonator	139.99

CQ (CQX)

	Building and Using **Baluns** and Ununs	$ 19.99
	HR Anthology - **Homebrewing** Techniques	19.99
	Lew McCoy on Antennas	15.99
	W6SAI HF Antenna Handbook	19.99

CSS (CSS)

	Pacterm for Windows Software; Kan TNCs ...	$ 99.99
	PKTerm for Windows Software; PK-12/96/232	99.99

CABLE X-PERTS (CAB)

CXP1318FX	CXP1318FX (low loss, flexible) per ft.	$ .99
CXP1318FX	.....**500** ft. Roll	449.99
CXP1318FC-3	3' CXP1318FX/silver teflon PL259s	20.99
CXP1318FC-50	50' CXP1318FX/silver teflon PL259s	63.99
CXP1318FC-75	75' CXP1318FX/silver teflon PL259s	97.99
CXP1318FC-100	100' CXP1318FX/silver teflon PL259s	126.99
CXP1318FC-150	150' CXP1318FX/silver teflon PL259s	176.99
CXP1318FN-3	3' CXP1318FX/type N males	27.99

Cbl X-perts - continued

		AES Price
CXP1318FN-75	75' CXP1318FX/type N males	99.99
CXP1318FN-100	100' CXP1318FX/type N males	132.99
CXP1318FN-125	125' CXP1318FX/type N males	159.99
CXP008C-3	3' RG8 foam/silver teflon PL259s	20.99
CXP008C-6	6' RG8 foam/silver teflon PL259s	23.99
CXP008C-25	25' RG8 foam/silver teflon PL259s	35.99
CXP008C-50	50' RG8 foam/silver teflon PL259s	52.99
CXP008C-75	75' RG8 foam/silver teflon PL259s	69.99
CXP008C-100	100' RG8 foam/silver teflon PL259s	93.99
CXP008C-125	125' RG8 foam/silver teflon PL259s	109.99
CXP213C-6	6' RG213/silver teflon PL259s ...	24.99
CXP213C-15	15' RG213/silver teflon PL259s	34.99
CXP213C-25	25' RG213/silver teflon PL259s	44.99
CXP213C-50	50' RG213/silver teflon PL259s	68.99
CXP213C-75	75' RG213/silver teflon PL259s	91.99
CXP213C-100	100' RG213/silver teflon PL259s	117.99
CXP08XC-18IN	18" RG8X/silver teflon PL259s	12.99
CXP08XC-3	3' RG8X/silver teflon PL259s	15.99
CXP08XC-6	6' RG8X/silver teflon PL259s	17.99
CXP08XC-12	12' RG8X/silver teflon PL259s .	21.99
CXP08XC-25	25' RG8X/silver teflon PL259s .	24.99
CXP08XC-50	50' RG8X/silver teflon PL259s .	34.99
CXP08XC-75	75' RG8X/silver teflon PL259s .	44.99
CXP08XC-100	100' RG8X/silver teflon PL259s	54.99
6633S	Type N male plug	6.99
CXP058ARBS-3	3' RG58/BNC male- SO-239	28.99
CXP142SBJ-3	3' RG142/SMA male - BNC female	27.99
CXP08XCB-3	3' RG8X/male BNCs	25.99
CXP08XCB-6	6' RG8X/male BNCs	27.99
CXP316RSSO-3	3' RG316/SMA male - SO-239	22.99
235	1" tinned copper ground braid .....per ft	1.35
235	.....**100** ft. Roll	117.99
2332	½" tinned copper ground braid ...per ft.	.84
2332	.....**100** ft. Roll	66.99
AZ-10	10ga red/black DC power cord ...per ft	1.15
AZ-10	.....**100** ft. Roll	101.99
AZ-12	12ga red/black DC power cord ...per ft	.82
AZ-12	.....**100** ft. Roll	70.99

CAT Comm (CAT)

NVSCAN-1	Southern NV Radio Scanning Directory	$ 15.99

CELESTRON (CEL)

21052	FirstScope 60AZ refractor telescope Δ	$ 59.99
21086	FirstScope 80EQ refractor telescope D	189.99
31044	FirstScope 114 4.5" reflector telescope Δ	169.99
31056	C-6N reflector telescope .....Δ	329.99
52211	60mm wildlife zoom spotting scope/tripod D	119.99

LENSES

93318	1.25" 9mm Omni lens .....Δ	$ 24.99
93320	1.25" 15mm Omni lens .....Δ	24.99
93353	1.25" 18mm Utima lens .....Δ	59.99
93387	1.25" 5mm X-Cel lens .....Δ	44.99
93391	1.25" 18mm X-Cel lens .....Δ	39.99
93507	1.25" 2x deluxe Barlow lens .....D	29.99
93497	Standard tripod .....Δ	79.99
93590	Red Astro Lite flashlight .....Δ	2.99
93700	CD-ROM "The Sky for Celestron" .....Δ	14.99
93722	Sky Map .....Δ	12.99
94119-10	Eyepc filt set (21/80A/ND13/polarizing) Δ	26.99
94126-A	Model A LPR filt; for 1¼" eyepieces D	39.99
302160	Soft case for Nexstar 60/80 .....Δ	39.99

Channel Master (CHA)

9521A	Prog light duty rotor/IR rem cont/3-wire	$ 99.99

CLOCKS

BMI **972AD**	14" 12/24-hour wall clock	$ 27.99
BMI **973A**	12" 24-hour wall clock	49.99
MFJ **105C**	24-hour quartz wall clock	24.99
MFJ **107B**	24-hour digital clock	12.99

Clocks - continued

		AES Price
MFJ **108B**	24/12-hour dual disp digital clock	21.99
MFJ **112B**	Deluxe world map clock	29.99
MFJ **113**	24/12-hr 1.8" LED clock/batt back-up	19.99
MFJ **115**	DX'er 24-hr analog world wall clock D	19.99
MFJ **118**	Giant 24/12 hour LCD clock	29.99
MFJ **123**	Eternity solar atomic clock	79.99
MFJ **125**	Calendar 24-hour analog wall clock	34.99

COAX SEAL (UNV)

104	½" x 60" coax seal	$ 3.99

Coaxial Dynamics (COA)

81000-A	Wattmeter w/SO-239s	$275.99
83000-A	Peak reading wattmeter w/SO-239s	393.99
82004	50w 2-30MHz element	87.99
82005	100w 2-30MHz element	87.99
82006	250w 2-30MHz element	87.99
82007	500w 2-30MHz element	87.99
82008	1000w 2-30MHz element	87.99
82009	2500w 2-30MHz element	125.99
82010	5000w 2-30MHz element	125.99
82013	10w 25-60MHz element	71.99
82014	25w 25-60MHz element	71.99
82015	50w 25-60MHz element	71.99
82016	100w 25-60MHz element	71.99
82029	10w 100-250MHz element	71.99
82031	50w 100-250MHz element	71.99
82033	250w 100-250MHz element	71.99
82046	10w 400-1000MHz element	71.99
82048	50w 400-1000MHz element	71.99
82049	100w 400-1000MHz element	71.99
88000	N female quick match connector each	12.99
88800	Carrying case for meter	65.99

COBRA (COB)

19DX IV	AM Mobile CB	$ 49.99
20XTR	AM Mobile CB w/neon magnetic ant D	69.99
25LTD	(25LTD Classic) AM Mobile CB	89.99
25WXNW ST	Night Watch Sound Tracker AM Mob CB/WX	109.99
29LTD	(29LTD Classic) AM Mobile CB	99.99
29NW	Night Watch AM Mobile CB	119.99
29WXNW ST	Night Watch Sound Tracker AM Mob CB/WX	129.99
75WX ST	Sound Tracker AM Mobile CB w/WX	99.99
148GTL	SSB/AM Mobile CB	149.99
HH-Road Trip	Sound Tracker HH CB/WX/mag ant	79.99
HGA-1000	Magnet mt CB antenna	19.99
HGM-77	Noise canx/amplified mobile mic	24.99

COMET (CMT)

SWR/POWER METER

CMX-1	1.8-60MHz 2kw remote SWR/pwr meter	$169.99
EKS-3	Optional 10' extension cable for CMX-1	28.99

MOBILE ANTENNAS

B-10	2m/440 2.15db 12" cell look-alike ant	$ 42.99
B-10NMO	2m/440 2.15db 12" cell look-alike NMO	42.99
C-757	2m/440 2.15/5.5db 38" foldover ant D	59.99
C-757NMO	2m/440 2.15/5.5db 38" foldover NMO D	59.99
CA-2X4SR	2m/440 3.8/6.2db 40" mob ant ...	69.99
CSB-7500	2m/440 3.6/6.1db 42" foldover ant	72.99
CSB-7700	2m/440 4.4/6.9db 51" foldover ant	89.99
CSB-7900	2m/440 5.1/7.7db 62" foldover ant	115.99
HA-050	6m 33" ¼ wave mobile antenna ....D	39.99
HP-32FHN	2m/440 3/5.5db 34" 350/250w ant	89.99
M-24B	2m/440 1.7/4.1db mag mt ant w/BNC	39.99
M-24M	2m/440 1.7/4.1db mag mt ant w/PL259	39.99
M-24S	2m/440 1.7/4.1db mag mt ant w/SMA	39.99
SBB-1	2m/440 1.5/2.15db 16" flex mobile ...	42.99
SBB-1NMO	2m/440 1.5/2.15db 16" flex NMO	42.99
SBB-2	2m/440 2.15/3.8db 18" black mobile	42.99
SBB-2NMO	2m/440 2.15/3.8db 18" blk NMO	42.99
SBB-5	2m/440 2.5/5.5db 39" black mobile ant	58.99
SBB-5NMO	2m/440 2.5/5.5db 39" black NMO	58.99

Comet - continued

	AES Price
SBB-7 2m/440 4.5/7.2db 58" black mob ant	79.99
SBB-7NMO 2m/440 4.5/7.2db 58" black NMO	79.99
SB-14 6m/2m/440 43" chrome mobile ant ...	67.99
SB-15 6m/2m/440 2.15/4.5/7.2db 58" chr mob	84.99
SBB-25 2m 4.1db black mobile antenna	48.99
SBB-25NMO 2m 4.1db black NMO mob ant ..	48.99
SB-97 2m/440/1.2 3/6.8/9.6db 39" type N ...	84.99
SB-123 1.2GHz 7.2db 24" type N mobile ant	54.99
SBB-224 2m/220/440 2.15/3.2/6db blk mob	78.99
SBB-224NMO 2m/220/440 2.15/3.2/6db blk NMO .	78.99
SF-245 2.4 GHz 7db 18" fg type N ant .....Δ	39.99
SF-245SPR 2.4GHz 7db 18" fg N ant/spring	59.99
UHV-4 10/6/2/440 55" mobile ant; FT8900R	109.99
UHV-6 40/15/10/6/2m/440 78" mobile ant ...	159.99
L-3.5 80m loading coil for UHV-6	34.99
L-14 20m loading coil for UHV-6/CA-HV	29.99
L-18 17m loading coil for UHV-6/CA-HV	29.99

MOBILE MOUNTS

3D4M Mobile mt, 13' coax w/UHF connectors	$ 26.99
3D4N Mobile mt, 13' coax w/type N	26.99
3D5M Mobile mt, 16.5' coax w/UHF connectors	28.99
5D4N Roof mount, 13' coax w/type N	34.99
AD-10N NMO mount to female N adapter	17.99
AD-15M NMO mount to SO-239 adapter	17.99
AD-25M SO-239 to NMO mount adapter	14.99
AD-35M ⅜-24 stud to UHF mobile mt adapter	17.99
CK-3-3/8-24 Dlx 2-step 16.5' cbl/3/8-24/UHF	42.99
CK-3M Dlx 2-step 10' cable w/UHF connectors	35.99
CK-3M5 Dlx 2-step 16.5' cable w/UHF connects	42.99
CK-3NMO Dlx 2-step 16.5' cable w/NMO/UHF	42.99
CK-5N Dlx 13' cable assembly w/type N	49.99
CM-5M Hvy duty mag mt, coax, max 4' ant ..	24.99
CP-5-3/8-24 HD ⅜-24 mt (RS-730) w/16.5' coax	69.99
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax	69.99
CP-5NMO Hvy duty NMO mt (RS-730) w/16.5' coax	69.99
CQ-5N Dlx black QD tnk lip mt/17' coax/N ..D	24.99
CR-5M Std coax assy, 16.5' coax, UHF conn .	19.99
CT-5M Trunk lip mount w/16.5' coax	39.99
GRB-5M Deluxe black trunk lip mt w/coax ...	69.99
MG-4N Magnet mt w/13' coax, N connector ..	54.99
RS-9 Trunk lip mount, no coax .....D	11.99
RS-520 Mini heavy duty trunk/hatch mount .	28.99
RS-560C Luggage rack mount, no coax	37.99
RS-720 Hatch/rear door/tnk multi-adj mt	29.99
RS-720NMO Hch/rear door/tnk multi-adj NMO mt	29.99
RS-730 HD rear van/SUV door/tnk lip mt, no coax	32.99
WS-1M Window clip mt w/UHF connectors	66.99

BASE STATION ANTENNAS

CA-712EF 440 9db 10' 5" base antenna	$119.99
CA-ABC22A 2m 6.5db 9' 5" base/rptr ant	75.99
CA-ABC23 2m 7.8 db 13' 4" base/rptr ant ...	119.99
CA-F72GF 440-470 6db 3' 6" tunable ant	119.99
CA-52HB4 6m 4 el 10.4db 10' 6" boom beam	139.99
CHA-250B 3.5-57MHz no radials 23.5' vertical	429.99
CX-333 2m/220/440 6.5/7.8/9db 10.25' ant	189.99
CYA-1216E 1.2GHz 16el 16.6db 4' 5" bm N beam	129.99
DS-150S 6m/2m/440/900/1.2 discone/60' coax	99.99
GH-50 6m 2.15db 7' 10" fg base antenna	109.99
GP-3 2m/440 4.5/7.2db 5' 11" base/rptr ant	99.99
GP-6 2m/440 6.5/9db 10' 2" base/rptr ant ..	159.99
GP-9 2m/440 8.5/11.9db 17' 8" base/rptr	219.99
GP-9N 2m/440 8.5/11.9db 17' 8" N base/rptr	219.99
GP-15 6/2m/440 3/6.2/8.6db 7' 11" base	179.99
GP-21/CA-1221S 1.2 14.8db 8' N base/rptr ..	169.99
GP-24 2.4GHz 15.4db 5' 10" N base/rptr	149.99
GP-95 2m/440/1.2 6/8.6/12.8db 8' 1-pc N ant	159.99
GP-98 2m/440/1.2 6.5/9/13.5db 9' 8" N ant.	169.99
KP-20 900 MHz 9.2db 7' 4" type N base/rptr	121.99

DUPLEXERS AND TRIPLEXERS

CF-142 1.3-150/200-480 600/400w UHF/leads	$ 69.99
CF-360A 1.3-30/50-470 600w UHF w/leads .	69.99

Comet - continued

	AES Price
CF-360B 1.3-30/50-470 600w UHF/common lead	69.99
CF-416A 2m/440 800/500w UHF w/leads	49.99
CF-416B 2m/440 800/500w UHF/N w/leads .	49.99
CF-416C 2m/440 800/500w N/UHF/N leads .	54.99
CF-416W 1.3-250/400-1400 400/200w N/leads ...	69.99
CF-530 1.3-90/125-470 600w UHF w/leads .	74.99
CF-530C Backwards duplexer for FT-8900R .	69.99
CF-706A 1.3-56/75-470 350w UHF w/leads .	74.99
CF-4130B 1.3-460/840-1400 800/500/200w N/UHF	49.99
CF-4160I 2m/440 800/500w UHF/UHF/N, no leads	48.99
CF-4160J 2m/440 800/500w SO239, no leads .	53.99
CF-4160K 2m/440 800/500w all UHF, no leads	48.99
CFX-324A 2m/220/440 600w UHF w/leads ...	88.99
CFX-324B 2m/220/440 600w UHF, no leads .	85.99
CFX-514 HF/2m/440 800/800/500w UHF w/leads	79.99
CFX-514J HF/2m/440 800/800/500w UHF, no leads	74.99
CFX-514N HF/2m/440 800/800/500w UHF/N w/leads	79.99
CFX-4310C 1.3-150/440/1.2 triplexer, no leads	79.99
CFX-5140 HF/6m/2m/440 800/800/500w UHF, no leads	74.99

HT & HANDHELD SCANNER ANTENNAS

BNC-24 2m/440 17" 2.15/5.3db BNC whip ...	$ 24.99
CH-32 2m/440 1.75" BNC Miracle Baby ant .	29.99
CH-75 2m/440 0/3.2db 14.75" BNC ant	25.99
HB-05 18" BNC female - SMA male adapter/cbl	14.99
HM-05 18" BNC male - SO-239 adapter/cable	14.99
HS-05 18" SMA male - SO-239 adapter/cable	14.99
HS-10 39" SMA male - SO-239 adapter/cable	17.99
HT-224 2m/220/440 11.5" SMA antenna	47.99
SH-55 2m/440 1.5/3.2db 15" BNC ant	33.99
SH-95 2m/440/1.2 1.5/2.15/5.5db BNC ant .	34.99
SMA-3 2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24 2m/440 17" 2.15/5.3db SMA whip ...	24.99
SMA-501 2m/440/900 1.5" SMA antenna	29.99
SMA-503 2m/440 8.75" SMA antenna	29.99
SMA-703 2m/440/1.2GHz 6.5" SMA ant	31.99

Comm Outfitters (COF)

EXP-1 Expedition Pack for Yaesu FT-817	$ 99.99

COMM-SPEC (COM)

ID-8 Automatic morse station identifier	$ 69.99
SS-64 64-tone mini prog CTCSS encoder	28.99
TE-32 32-tone CTCSS prog encoder box	49.99
TS-64DS 64-tone CTCSS prog encoder/decoder	57.99

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)

83-1SP-1050 Male coax plug (PL-259)	$ 1.99
83-1SP Silver plated coax plug (PL-259)	2.99
(CZL) **401TS** silver plated teflon PL-259	2.99
(VAN) **silver plated** teflon PL-259	2.99
83-168-RFX Reducer; RG-59/RG-8X (UG-176)	.99
83-185-RFX Reducer for RG-58 (UG-175) .	.99
(SHA) **PL-259-CP-G** Solderless PL259;RG8X/58	6.99
(SHA) **PL-258-CP-G** Solderless splice;RG8X/58	9.99
83-1AP Right angle adaptor (UG-646)	9.99
83-1J Double female adaptor (PL-258)	8.99
83-1R Female chassis mt socket (SO-239) ...	3.99
83-1T T-connector adaptor (M-358)	14.99
83-877 Double male adaptor	15.99
83-878 Single hole ⅜" chassis socket	5.99
31-002 BNC male connector for RG-58	5.99
31-012 BNC male connector; RG-59/RG-8X ..	9.99
31-221 BNC female chassis socket	2.99
82-24 Type N female chassis mt socket	9.99
82-64 Type N right angle adaptor	19.99
(CAB) **6633S** Type N male plug	6.99
(VAN) **N connector** Type N connector for 9913	4.99
82-202-1006 Type N male; 8214/9913/9913F .	7.99
34025 Type N male connector for RG-58	11.99

AMPHENOL COAX ADAPTORS (AMP)

2900 SO-239 to BNC male adaptor	$ 14.99

Connectors - continued

4400 SO-239 to type N male adaptor	17.99
31-28 BNC female to PL-259 adaptor	19.99
(HOU) **SMA-872** SO-239 to SMA plug adaptor	5.99

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

(PHI) **61-608B** 8-pin female mic plug	$ 4.99
25-7365 BNC female to SO-239	3.99
25-7420 BNC male to SO-239	3.99
26-8010 Type N double female	4.99
26-8011 Type N chassis mount	2.99
26-8014 N female to PL-259	4.99
26-8015 N male to SO-239	4.99
26-8016 BNC female to N male .....D	4.99
26-8017 BNC male to N female	4.99
27-8120 BNC female to PL-259	3.99
27-8130 BNC double male	3.99
27-8140 BNC T; 2 female, 1 male	2.99
27-8142 BNC T, 3 male .....Δ	.29
27-8470 Dual BNC chassis mount	3.99
29-3855 BNC female to SMA male	4.99
29-4140 SO-239 to mini PL-259	3.99
CPAD-207 Chassis mt SO-239 double female	4.99
CPAD-809 BNC female to N male	6.99

VANCO MICROPHONE CONNECTORS (VCO)

CBC-3 3-pin female mic plug .....Δ	$ .29
CBC-4 4-pin female mic plug	4.99
CBC-5 5-pin female mic plug	3.99
CBC-6 6-pin female mic plug	4.99
(AIM) **19-1289** 8-pin female mic plug	4.99
CBC-8P Panel mt 8-pin male	5.99

KENWOOD DIN PLUGS (KEN)

7-pin DIN plug	$ 4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99

VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1 Magnetic mic holder	$ 1.99
MH-2 Regular mic holder	1.49
P-12R 2-contact cigarette plug	2.29
P-12V Cig lighter plug w/leads	2.29
P-35 3.5mm miniature phone plug	.69
P-212 2-outlet cigarette plug adapter	4.99
P-212B Dual cigarette lighter socket adapter	8.99
(DAL) **15-0293** 3.5mm mono phone plug .....Δ	.19
(HOU) **AP-115** ¼" metal stereo plug	1.99
(HOU) **AP-135** 3.5mm stereo mini phone plug	.69
(HOU) **VCC-6B** 20 pack of cable clips; RG6/8X	2.99

Connect Systems (CSY)

CS-800 Desk duplex interconnect/rptr controller	$369.99
CS-900 Desk simplex interconnect	369.99

CROSS DEVICES (CRS)

STUF Coax connector waterproofing filler	$ 5.99

CUSHCRAFT (CUS)

At Cushcraft's request, amateur radio dealers are not authorized warranty depots for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S 2m, 3 el wideband beam, 7.8db	$ 77.99
A148-10S 2m, 10 el wideband beam, 13.2db	124.99
A449-6S 440 MHz, 6 el, 3' boom, 10 db	73.99
A449-11S 440 MHz, 11 el, 4.5' boom, 13 db .	99.99

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S 2m/440, 3/3 el, 2.8' boom, 7.8 db ..	$ 99.99
A270-10S 2m/440, 5/5 el, 6.17' boom, 10 db	129.99

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 BEAM

A6270-13S 6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	$249.99

Cushcraft - continued AES Price

FM RINGOS - 1/2 Wave Verticals

AR-10 10m FM Ringo, 17.6', 3db, 1000w ..... $ 99.99
AR-6 6m FM Ringo, 10.1', 3db, 1000w 99.99
AR-2 2m FM Ringo, 3.9', 3db, 1000w 59.99
AR-450 440MHz FM Ringo, 1.4', 3db, 500w .. 45.99

RINGO RANGERS - FM Verticals

ARX-2 2m FM Ringo Ranger ..... $ 69.99
ARX-2B 2m FM Ringo Ranger II, 14', 7db, 1000w 84.99
ARX-220B 220 FM Ringo Ranger II, 9.3', 7db, 500w 84.99
ARX-450B 440FM Ringo Ranger II, 4.9', 7db, 500w 84.99

DUAL-BAND 2M/440 FM RINGOS

AR-270 2m/440MHz FM, 3.75', 3/5.5db, 250w $114.99
AR-270B 2m/440 MHz FM, 7.7', 5.5/7.5db, 250w 124.99

TWIST, OSCAR BEAM (Horiz/Vert Polarization)

A148-20T 2m 20el 10.8'boom 13db twist $174.99

BOOMER ANTENNAS

124WB 2m Boomer, 4 el, 4' boom, 10.2 db ... $109.99
13B2 2m Boomer, 13 el, 15' boom, 14.2 db .. 199.99
17B2 2m Boomer, 17 el, 31' boom, 18 db 299.99
26B2 2 13B2s vertically stacked 499.99
224WB 220 Boomer, 4 el, 3' boom, 10.2db ... 96.99
719B 432 19 el 13.5' boom 15.5db 189.99

BOOMER POWER DIVIDERS

PD-2 Power divider for 2 13B2s ..... $ 71.99
PD-4 Power divider for 4 13B2s 90.99

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S 6m, 3 el, 6' boom, 8 db, stainless hdwre $139.99
A50-5S 6m, 5 el, 12' boom, 10 db, stainless hdwre 219.99
A50-6S 6m, 6 el, 20' boom, 11db, stainless hdwre 349.99
A148-10S 2m, 10 el wideband beam 124.99
A430-11S 430 MHz, 11 el, 4' boom, 13 db 99.99
*Antennas can be mounted vertically or horizontally!

MONO-BAND MOBILE ANTENNAS

CS-28M 10m magnet mt antenna ..... $ 64.99
CS-50M 6m magnet mt 3 db antenna 64.99
CS-147A 2m coil & whip only 44.99
CS-147M 2m magnet mt 3 db antenna 64.99
CS-220M 220 magnet mt 3 db antenna 64.99
CS-450M 440 magnet mt 5 db antenna 64.99

DUAL-BAND 2M/440 MOBILE ANTENNAS

CS-270A 2m/440 coil & whip only ..... $ 64.99
CS-270M 2m/440 3.7/6 db magnet mt ant .. 89.99

MOUNTS ONLY FOR MOBILE ANTENNAS

CS-MG Magnetic mount ..... $ 32.99
CS-MGN Magnetic mount w/N connector 37.99
CS-TL Trunk lip mount 32.99

MULTIBAND HF VERTICAL ANTENNAS

MA-5V 20/17/15/12/10m 14.7' vertical ant .. $259.99
MA-6V 20/17/15/12/10/6m 14.7' vertical ant 319.99
MA-160V 160m 36' vertical ant w/radials 249.99
MA-8040V 80/40m 22' vertical antenna 259.99
R-6000 20/17/15/12/10/6m 19' vertical 369.99
R-8 40/30/20/17/15/12/10/6m 28.5' vert 539.99
R-8GK Guy kit for R-8 ..... 56.99

ROTATABLE HF DIPOLES

D-3 20/15/10m World Ranger rotatable dipole $299.99
D-3W 30/17/12m rotatable dipole 299.99
D-4 40/20/15/10m World Ranger rotatable dipole 419.99
D-40 40m World Ranger rotatable dipole 369.99

BIG THUNDER HF TRI-BAND BEAM

X-7 20/15/10m, 7 el, 18' boom, 12.5/13db .. $799.99
X-740 40m add-on kit for X-7 ..... 349.99

BIG THUNDER HF MONOBAND BEAM

XM-240 40m, 2 el, 22' boom, 7 db $829.99
TEN-3 10m, 3 el, 8' boom, 8 db 249.99

MULTIBAND HF BEAM ANTENNAS

A-3S 20/15/10m, 3el, 14'bm, 8db, stainless hdwr $549.99
A-743 40m or 30m add-on kit; A-3/A-3S ... 199.99

Cushcraft - continued AES Price

A-4S 20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre 649.99
A-744 40m or 30m add-on kit; A-4/A-4S ... 199.99
A-3WS 17 & 12m, 3 el, 14' boom, 8 db 429.99
A-103 30m add-on kit for A-3WS 199.99
ASL-2010 13.5-32MHz 8el 18' bm 6.4db LP . 899.99
MA-5B 20/17/15/12/10m 7.3' boom mini beam 399.99

LIGHTNING ARRESTORS

LAC-4 200w SO-239 gas tube arrestor ..... $ 64.99
LAC-4H 2kw SO-239 gas tube arrestor 70.99
LAC-4N 200w type N gas tube arrestor 83.99
LAC-4NH 2kw type N gas tube arrestor 86.99
LC-2 Extra 200w cartridge for LAC-4/4N ... 20.99
LC-2KW Extra 2kw cartridge for LAC-4H/4NH 22.99
5VB Vinyl connector boots .....pack of 5 15.99

DCI (DCI)

145-2H 2m 144-146MHz 200w bandpass filter $119.99
146-4H 2m 144-148MHz 200w bandpass filter 119.99
223.5-3H 222-225MHz 200w bandpass filter 119.99
2m/220 models w/N connectors add $10 special order
435-10C 430-440MHz 200w N bandpass filt 139.99
445-10C 440-450MHz 200w N bandpass filt 139.99
146/444-DB 144-148/438-450 200w bp filter 189.99

DAIWA (DAI)

CN-101 1.8-150 15/150/1.5kw SWR/pwr meter/light $ 99.99
CN-103M 140-525 20/200w SWR/power meter 99.99
CN-103N 140-525 20/200w N SWR/pwr meter 109.99
CN-801HP 1.8-200 20/200/2kw SWR/PEP pwr 159.99
CN-801SII 900-2.5GHz 200mw/2/20w N SWR/pwr 269.99
CN-801V 140-525 20/200w SWR/power meter 154.99
CS-201 2-position 600MHz coax switch 26.99
CS-201GII 2-position 2GHz N coax switch 44.99
SS-330W Variable 30A switch ps/fan/meters 169.99
SS-505 Variable 50A switch ps/fan/meter/3-outputs 399.99

DAVIS (DAV)

6152 Wireless Vantage Pro2 weather station . $539.99
7400 Perception II indoor weather unit 129.99
7425 Wizard III weather station 179.99
7440 Monitor II weather station 269.99
7852 Rain Collector II, 0.01" 69.99
7859 External temp/humd Sensor II; 7440 119.99
7862 Weatherlink Win interface/software ... 149.99
7866 Weatherlink Mac interface/software ..D 39.99
7870 Modem adapter for 7862/7866 ...D .29
7867 Weatherlink Mac to Win conv kit ....D .19
7868 Weatherlink Win to Mac conv kit ....D .19
7873 Cig lighter power cord .....Δ 6.99
7876-040 4-conductor 40' extension cbl Δ 14.99
7878-040 6-conductor 40' extension cbl Δ 16.99
7881 8-conductor 50' junction box cable Δ 19.99
7882 8-conductor 100' junction box cbl Δ 34.99
7890 Mast mount for anemometer .....D 6.99
0131 Weather forecasting quick reference card 9.99
0276 WindScribe electronic wind/temp indicator 99.99
0281 Wind Wizard handheld wind indicator .. 49.99

DIAMOND (DIA)

SWR/POWER METERS

SX-20C HF/6m/2m 30/300w meter ..... $ 89.99
SX-40C 144-470 (220 w/correction) 15/150w 79.99
SX-100 1.6-60 MHz 30/300/3kw PEP meter .. 134.99
SX-200 1.8-200 MHz 5/20/200w PEP meter .. 94.99
SX-400 140-525 MHz 5/20/200w PEP meter . 114.99
SX-600 Dual band 1.8-160 /140-525 200w PEP mtr . 169.99
SX-1000 1.8-160/430-1300MHz 200w PEP meter . 214.99

HT & HANDHELD SCANNER ANTENNAS

MAY-1000 2el 120-500MHz handheld beam . $ 99.99
RH-3 2m/440 1.75" BNC mini HT duck 24.99
RH-77CA 2m/440 15" BNC rubber gain ant .. 24.99
RH-205 2m ⅝ wave 47.5" BNC telescopic ant 24.99

Diamond - continued AES Price

RH-519 2m/440 8" BNC flexible whip 24.99
RH-707 2m/440 8¾" BNC tiltable whip 33.99
RH-789 93-1100MHz adjustable freq BNC ant 34.99
RH-951S 2m/440/1.2GHz 14" BNC slim duck 44.99
RHF-40 2m/440 15" BNC flexible rubber gain ant 29.99
SRH-77CA 2m/440 15" SMA rubber gain ant 24.99
SRH-320A 2m/220/440 13.75" SMA flex whip 49.99
SRH-519 2m/440 8" SMA flexible whip 27.99
SRH-789 93-1100MHz adjustable freq SMA ant 34.99
SRH-805 2m/440/1.2GHz 1.75" SMA ant 27.99
SRH-815 2m/440/1.2GHz 6" SMA flex whip .. 31.99
SRH-999 6m/2m/440/1.2GHz 20" SMA whip . 59.99
SRHF-40 2m/440 15" SMA flexible rubber gain ant 29.99

MONO-BAND MOBILE ANTENNAS

HF-6FX 6m 2.15db 44" mobile antenna ..... $ 69.99
HF-50CX 6m 3.5db 71" mobile antenna 99.99
M-285 2m 3.4db 52.4" mobile antenna 31.99
M-285SNMO 2m 3.4db 52.4" NMO mobile ant 31.99
M-685 6m 2.15db 52.4" mobile antenna 31.99
M-685SNMO 6m 2.15db 52.4" NMO mobile ant 31.99
MG-200 2.4GHz 7db 23.6" N mobile ant .....D 99.99
NR-22L 2m 6.5db 96.8" mobile antenna 69.99
NR-124NMO 1.2GHz 8.4db 25" NMO antenna 64.99
NR-140BNMO Black 220 4db 37" NMO ant .. 53.99
SG-2000HD 2m 5.2db 62.6" 250w mob ant .. 89.99

DUAL-BAND MOBILE ANTENNAS

CR-270A 2m/440 2.15/3.4db 17.2" mobile ant $ 42.99
MR-77 2m/440 2.15/3.4db 20" magnetic ant 34.99
MR-77SMA 2m/440 2.15/3.4db 20" mag w/SMA 39.99
NR-72BNMO Black 2m/440 2.15db 14" NMO 41.99
NR-73BNMO Blk 2m/440 2.15/5.5db 34" NMO 57.99
NR-770HA 2m/440 3/5.5db 40" mobile ant .. 56.99
NR-770HB Black 2m/440 3/5.5db 40" mobile 59.99
NR-770HNMO 2m/440 3/5.5db 40" NMO mobile 56.99
NR-770HBNMO Blk 2m/440 3/5.5db 40" NMO 59.99
NR-770HRKS 2m/440 3/5.5db 40" adhesive mt 109.99
NR-7900A 2m/440 3.7/6.4db 57" hi pwr mob ant 84.99
SG-M510 2m/440 2.15/5.5db 37" mob ant ... 59.99
SG-7000A 2m/440 2.15/3.8db 19" mobile 69.99
SG-7500A 2m/440 3.5/6db 41" mobile ant ... 79.99
SG-7500NMO 2m/440 3.5/6db 41" NMO ant .. 79.99
SG-7900A 2m/440 5/7.6db 62" mobile ant ... 114.99
SG-7900ANMO 2m/440 5/7.6db 62" NMO ant 114.99
K-400CNMO Hacth/tnk mt/coax; SG7900ANMO 69.99

TRI-BAND MOBILE ANTENNAS

CR-320A 2m/220/440 2.15/3.8/5.5db 36" .... $ 89.99
CR-320BNMO Black 2m/220/440 36" NMO ant 89.99
CR-627B 6m/2m/440 2.15/4.5/7.2db 60" ant 99.99
CR-627BNMO 6m/2m/440 2.15/4.5/7.2db 60" 99.99
HV-7A 10/6/2m/440 54" UHF mount mobile ant 109.99
HVC-7 40m loading coil for HV-7A/MV-3A . 44.99
HVC-14 20m loading coil for HV-7A/MV-3A 37.99
HVC-18 17m loading coil for HV-7A/MV-3A 37.99
HVC-21 15m loading coil for HV-7A/MV-3A 37.99
NR-2000NA 2m/440/1.2 3.15/6.3/9.7db 39" N mob 89.99
SG-M911 6m/2m/440 2.15/3/5.8db 41" mob 69.99

QUAD-BAND MOBILE ANTENNAS

CR-8900A 10m/6m/2m/440 0/0/2.15/5.5db 50" $ 99.99
D-220 2m/440/900/1.2G 35.5" mobile discone 99.99

ADHESIVE BACKED MOBILE MOUNT

HRKS SO239 mt/13' coax/SMA/PL259 adapter $ 69.99

MAGNET MOUNTS

DPK-4NM-N Hvy dty mag mt, cbl, N, 45" max $ 49.99
K-702M Hvy duty mag mt, 6¾" dia, 50" max 49.99
SPM-35 Hvy duty mag mt, cable, 45" max 39.99
SPM-NMO Hvy dty NMO mag mt, cbl, 45" max 44.99

TRUNK LIP MOUNTING KITS

K-400 Hatch/trunk mt; NR/SG antennas ..... $ 39.99
K-400C Hatch/trunk mt w/coax; UHF mount . 69.99
K-400CNMO Hatch/trunk mt w/coax; NMO mt 69.99

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Diamond - continued

	AES Price
K-400S Hatch/trunk mt w/coax; UHF mt/SMA	79.99
K-400SNMO Hatch/trunk mt w/coax; NMO/SMA	79.99
K-400-3/8C Trunk mount w/6.5' cable; ⅜-24	69.99
K-412C Light duty hatch/tnk mt w/coax; UHF mt	59.99
K-412CNMO Light duty hatch/tnk mt w/coax; NMO	59.99
K-412S Light duty hatch/tnk mt w/coax; UHF/SMA	69.99
K-412SNMO Lt duty hatch/tnk mt/coax; NMO/SMA	69.99
C-110 10' extension cable for K-412 mts ..	14.99
K-600M Tilt angle SO-239 trunk mt w/cable .	57.99
K-600S Tilt angle SO-239 tnk mt w/cable/SMA	57.99
K-601M SO-239 hideaway trunk mt, 6' coax .	69.99
K-601NMO NMO hideaway trunk mt, 6' coax .	69.99
C-110 10' extension cable for K-601 mts ..	14.99
K-604M Tilt angle trunk mt w/flexible cable D	24.99
K-9000LRM Motorized luggage rack mount ..	109.99
K-9000TM Motorized trunk/hatchback mt	109.99

MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S Lug rack SO-239 mt; new type SUV/SMA	$ 69.99
K-515SNMO Lug rack NMO mt; new type SUV/SMA	69.99
K-540 Mirror/luggage rack mt; under 45"	35.99
K-540KM Mirror/luggage rack mt w/coax	59.99
K-550* Luggage mt; new mini vans (use GLP)	44.99
K-550KM* Luggage mt w/SO-239 base/coax	69.99

*K-550 series not recommended for Yae ATAS-100/120

MOUNTING GROUP HARDWARE

BNCJ-SMAP Low prof blk BNC-F to SMA-M adapt	$ 9.99
C-101 SO-239 mt, 6.5' RG-316 low-loss coax	32.99
C-101-3/8C Extra cable assembly; K400-3/8C	27.99
C-101-3/8C-KIT Upgrades any K400 to K400-3/8C	44.99
C-101NMO NMO mt, 6.5' RG-316 low-loss coax	32.99
C-104SMA 4' RG-58 ext cbl; SMA male & SO-239	16.99
C-105SMA 5' RG-58 ext cable; C-101/SMA male	16.99
C-110 10' ext cable; C-101/K-601/K-400-3/8C	14.99
C-110BNC 10' extension cable to BNC male .	22.99
C-110SMA 10' RG-58 ext cable; C-101/SMA male	22.99
C-211 SO-239 mt, 6.5' coax, 10' coax entend	44.99
C-213 SO-239 mt, 13.5' RG-316 low-loss coax	41.99
C-213NMO NMO mt, 13.5' RG-316 low-loss coax	41.99
CRM Stainless steel right angle bracket w/U-bolts	16.99
NMO/UHF NMO to UHF adapter	12.99
NMO/UHF-B Black NMO to UHF adapter	13.99

MONO-BAND BASE STATION ANTENNAS

A-144S5 2m 5 el 37.5" boom 9db beam	$ 59.99
KB-144 Side mounting bracket/hardware ..	24.99
A-430S10 430 10 el 43" boom 13db beam	69.99
KB-430 Side mounting bracket/hardware ..	22.99
A-430S15 430 15 el 89" boom 14.8db beam .	89.99
A-502HB 6m 2 el 2.6' boom 6.3db beam	99.99
CP-22E 2m 6.5db 9' base antenna	54.99
DP-GH62 6m 6db 21' base antenna	147.99
F-22A 2m 6.7db 10.5' base antenna	99.99
F-23A 2m 7.8db 15' base antenna	129.99
F-718A 440 11.5db 15' type N base antenna	219.99
F-1230All 1.2GHz 13.1db 12' N base ant	179.99
G-200 2.4GHz 11db 6' N base antenna	199.99
2400-Y12 2.4GHz 12db 8el 15"bm 25w N beam	129.99

DUAL-BAND BASE STATION ANTENNAS

U-200 440/1.2GHz 8.3/11.7db 6' N base ant	$119.99
X-30A 2m/440 3/5.5db 4.5' base antenna	69.99
X-50A 2m/440 4.5/7.2db 5.6' base antenna .	99.99
X-50NA 2m/440 4.5/7.2db 5.6' base N ant ...	99.99
X-200A 2m/440 6/8db 8.3' base antenna	124.99
X-300A 2m/440 6.5/9db 10' base antenna ...	134.99
X-300NA 2m/440 6.5/9db 10' base N ant	134.99
X-500HNA Hvy duty 2m/440 8.3/11.7db 17.8' N ant	249.99
X-510MA 2m/440 8.3/11.7db 17.2' base ant	189.99
X-510NA 2m/440 8.3/11.7db 17.2' type N ant	189.99
X-510NJ 143.5-146.5/428-442 8.3/11.7db 17.2' N	199.99
X-700HNA 2m/440 9.3/13db 24' type N ant .	389.99

Diamond - continued

	AES Price
D-130J 50-1300 MHz 200w discone antenna	$ 99.99
D-130NJ 50-1300 MHz 200w N discone ant ..	99.99
V-2000A 52-54MHz/2m/440 2.1/6.2/8.4db 8.3'	164.99
X-3200A 2m/220/440 6/7.8/8db 10' base	169.99
X-6000A 2m/440/1.2 6.5/9/10db 10.5' N	199.99
BB-7V 2-30MHz 22' no radial vertical (use tuner)	399.99

DUPLEXERS & TRIPLEXERS

MX-37 440/1200MHz N/N duplexer w/cable ..	$ 64.99
MX-62M HF-6m &2m/440, 12" cables dplxr .	74.99
MX-72A HF-2m/440 dplxr/440 N female, 12" cbls	54.99
MX-72D HF-2m/440 400/150/100w duplexer	48.99
MX-72H HF-2m/440 duplexer w/12" cables ..	49.99
MX-72N HF-2m/440 dplxr, 440 type N male, 12" cbls	49.99
MX-214D 2m/220 150/100w dplxr, no cables	69.99
MX-324 2m/220/440 triplexer	89.99
MX-324D 2m/220/440 triplexer, no cables .D	84.99
MX-610 HF-6m duplexer; IC-706/FT-100	69.99
MX-2000 HF-6m/2m/440 400/400/250w triplexer	84.99
MX-3000 HF-2m/440/1.2 400/200/100w triplexer	79.99
MX-3000N HF-2m/440/1.2 400/200/100w N triplexer	85.99

ACCESSORIES

CA-23RP 2500MHz 200w N-F/N-M lightning protect	$ 41.99
CA-23RS 2500MHz 200w N lightning protector	39.99
CA-23RW 2500MHz 200w N waterproof protector	44.99
CA-35R/RS 1000MHz 400w lightning protector	29.99
CA-35RPW 1000MHz 400w waterproof protector	39.99
CX-210A 1.5kw DC-1000MHz coax switch	44.99
CX-210N 1.5kw DC-1500MHz N coax switch .	74.99
CX-310A HD 3-pos DC-800MHz coax switch .	83.99
DL-30A 15/100w peak 0-500MHz dummy load	27.99
DL-30N 15/100w peak 0-500MHz N dummy load	39.99
GZV-4000 Variable 40A switching ps/meter/spkr	179.99
PC-3 10' DC cable w/T-connector for mob rig	15.99

DRAKE (DRA)

1590 35-55, 108-174 MHz VHF conv; R8B .D	$219.99
7852 R-8B technical manual .....D	24.99

DURACELL (DUR)

9V 9v alkaline battery	$ 3.69
AA-4 4-pack AA alkaline batteries	3.69

DYNAMITE (DYN)

1000 Dyna-Sport 1500mah 6-cell flat nicad Δ	$ 6.99
1145 Dyna-Fun 2000mah 6-cell nicad .....Δ	9.99
4010 Mega 1 AC/DC quick charger .....Δ	14.99
4046 Vision Peak Plus AC/DC peak charger Δ	44.99

ECG (ECG)

U-105 Light duty antenna rotor/3-wire	$ 69.99
U-106 Light duty ant rotor/presets/IR rem/3-wire	89.99
TB-105 Thrust bearing for U-105/U-106 ...	18.99

ESP (ESP)

ESP-1 Microphone audio processor	$225.99

EASY-UP (UPS OK) (EAS)

EZ 5-16 5' 16 ga steel mast .....pick-up only	12.99
EZ 29-24S Stainless double strap chimney mt	22.99
EZ 30-24 Dlx wall mt w/extra 3rd leg support	29.99
EZ 31 Heavy duty adjustable eave mount	29.99
EZ 48-3ABX 3' boxed tripod w/pitch pad kit .	39.99
EZ 48-5ABX 5' boxed tripod w/pitch pad kit .	59.99

ELK Antennas (ELK)

2M/440-L5 2m/440 5el quick assembly LP beam	$ 89.99
220-L6 220 6el quick assembly LP beam	81.99
440-L8 440 8el quick assembly LP beam	81.99
Elk Bag Canvas carrying bag for Elk antenna ...	24.99

EXCALIBUR (EXC)

908 Talking electronic chess computer	$ 59.99
H-422 Large Forever Flashlight (clear case) .	29.99

Excalibur - continued

	AES Price
H-423 Small Forever Flashlight (clear case) .	24.99

GE (GEX)

72887 Super Radio III AM/FM radio, AC/DC D	$ 54.99

GAP VERTICALS (GAP)

DX-VIII Challenger 75*/40/20/15/12/10/6/2m 31.5'	$299.99
*80m CW w/capacitor exchange from GAP	
Challenger Counterpoise	32.99
(SYN) **100'** ⅜" black double braided rope ..	9.99
DX-VI Eagle 40/20/17/15/12/10m 21' rigid ..	329.99
DX-IV Voyager 160/80/40/20m 45'; use 350' guy	439.99
Voyager Counterpoise	64.99
(SYN) **350'** ⅜" black double braided rope ..	49.99
Titan DX 75*/40/30/20/17/15/12/10m, 25' ..	359.99
*80m CW w/capacitor exchange from GAP	
100' Guy Kit with clamp	15.99
200' Guy Kit with clamp	23.99
Ground Mount Quick tilt mt for vertical ant .	79.99
Ladder Mount Quick tilt mt; campers/RVs	79.99
Hear It DSP noise eliminating speaker	159.99
In Line Module Hear It in line module noise elim	199.99

GARMIN (GAR)

Geko-101 Small GPS receiver .....D	$ 84.99
Geko-201 Small GPS receiver w/WAAS	139.99
GPS-12XL GPS receiver .....D	169.99
GPS-72 Handheld track-plotter GPS	149.99
GA-27C Low prof rem ant/cbl; GPS-12CX/XL	89.99
010-10048-00 Mounting bkt; 12CX/XL .. Δ	19.99
010-10082-00 Power/data cable	27.99
010-10085-00 Cig lighter adapter cable ...	23.99
010-10117-01 Carying case .....D	2.99
010-10117-02 Carying case	12.99
010-10121-00 MCX-BNC adapt cbl; 12CX/XL Δ	14.99
010-10141-00 PC interface cable	38.99
010-10165-00 PC cable w/cig adapter	45.99
GPS-60 GPS w/1MB internal memory	159.99
GPS-MAP60 GPS w/24MB internal memory ...	269.99
010-10117-02 Carying case	12.99
010-10111-00 Mtg bracket; GPS-III Plus ...Δ	4.99
010-10199-03 Carrying case; Street Pilot ..D	2.99
010-10227-00 Blank 8MB mem cartridge ...D	14.99
010-10232-00 Carrying case; Street Pilot ..D	2.99
StreetPilot 2610 Deluxe GPS .....D	599.99
GA-27C Low profile remote ant/cable/MCX	89.99
StreetPilot C330 Deluxe GPS w/software	449.99
GA-27C Low profile remote ant/cable/MCX	89.99
eTREX 12 ch mini GPS receiver	99.99
eTREX Summit 12ch mini GPS/compass/barometric	179.99
010-10203-00 Cig lighter cbl; eMAP & eTREX	39.99
010-10205-00 Data cable; eMAP & eTREX	22.99
010-10206-00 PC interface cbl; eMAP & eTREX	38.99
GPS-V Deluxe Turn-by-turn navigation GPS/soft D	269.99
GA-26C Low prof remote ant w/cbl/BNC Δ	89.99
010-10082-00 Power/data cable	27.99
010-10117-01 Carying case .....D	2.99
010-10117-02 Carying case	12.99
010-10165-00 PC cable w/cig adapter	45.99
010-10468-00 MapSource MetroGuide CD Δ	79.99
cfQue-1620 GPS module for Pocket PC's ....D	189.99
Foretrex 101 Wrist GPS	129.99
Forerunner 201 Wrist GPS/personal trainer ...	149.99
GPS-18PC DIx GPS sensor for laptop/serial/mag/soft	129.99
GPS-18USB DIx GPS sensor for laptop/USB/mag/soft	129.99
iQue-3600 Handheld PDA w/integrated GPS D	419.99
GA-27C Low prof remote ant/cbl; iQue-3600	89.99
iQue-M5 Pocket PC integrated with GPS .....D	599.99
Rino-120 GPS/FRS/GMRS w/8mb mem/basemap	229.99
010-10117-02 Carying case; Rino-120	12.99

AES Price

GEAR KEEPER (GEA)

RT2-4012 Hvy duty Mic Keeper w/snap clip .. $ 19.99
RT3-4653 Locking HT Gear Keeper/swivel belt clip 26.99

GLEN MARTIN (GME)

TOWERS

M-13A 13" wide alum 10' tower section T $255.99
CHB-13 Footing assembly for M-13 122.99
CM-1300 Center mount for M-13 37.99
FB-13 Fixed base for M-13 127.99
HB-13 Hinge base for M-13 188.99
H-5 Aluminum Hazer system for M-13 425.99
M-18A 18" wide alum 10' tower section T 299.99
CHB-18 Footing assembly for M-18 135.99
CM-1800 Center mount for M-18 39.99
FB-18 Fixed base for M-18 164.99
HB-18 Hinge base for M-18 284.99
H-6 Aluminum Hazer system for M-18 463.99

TOWER PACKAGES

M-1330A 30' alum tower package w/Hazer .T 1776.99
M-1340A 40' alum tower package w/Hazer .T 1999.99
M-1350A 50' alum tower package w/Hazer .T 2237.99
M-1840A 40' alum tower package w/Hazer .T 2298.99
M-1850A 50' alum tower package w/Hazer T 2569.99
KB-1000 57" side arm; M-13 series 89.99
KB-1300 57" side arm; M-18 series 92.99
ML-1800 Messenger line kit for GME towers .. 79.99

ROOF-TOP TOWERS

RT-424 4.5' roof-top tower, anodized aluminum $179.99
RT-832 8' roof-top tower, anodized aluminum 268.99
RT-936 9' roof-top tower, anodized aluminum 436.99
RT-1832 17.5' roof-top tower, anodized aluminum 584.99
RT-2632 26' roof-top tower, anodized aluminum 967.99
EL-3744 Concrete L-bolts, set of 8 16.99
LB-3755 Lag bolts, set of 8 (3/8 x 5") 10.99
MC-10 Mast clamp; aluminum, 2 required 26.99
RA-6024 24" side arm for roof towers 45.99
RA-6048 48" side arm for roof towers 60.99
RT-5505 Rubber mat, 18" x 48" 26.99
RT-8900 Non-penetrating roof mount base 494.99

HAZERS FOR ROHN TOWERS

H-2 Heavy duty aluminum Hazer system $396.99
H-3 Standard duty aluminum Hazer system . 299.99
H-4 Heavy duty galv steel Hazer system 382.99
BW-8001 Brake winch for H-2/3/4 88.99
HR-2040 Roller bearing set for Hazers 69.99
HR-6010 T²X plates for H-2/3/4/5 28.99
HS-1301 36" side arm for Hazers 70.99
ML-2500 Messenger line kit for Rohn towers 84.99

LIGHTNING PROTECTION

LR-8400 Premium lightning rod kit $109.99
GR-4400 Ground rod wire clamp 7.99
GR-5080 8' x 5/8" ground rod 22.99
LR-8418 Lightning rod point, 1/2" x 18" ... 42.99
LR-8451 Clamp for holding rod to 1 5/16" mast 26.99
LR-8452 Clamp for holding rod to 2" mast 27.99
LR-8472 Lightning rod point, 1" x 72" 75.99
TL-0470 Terminal lug 2.99

MASTS

M-1040 10' x 2" OD heavy duty galv steel mast T $ 92.99
M-1049 9' x 2" OD heavy duty galv steel mast 87.99
MA-1040 10' x 1.92" OD medium duty alum mast T 103.99
MA-1049 9' x 1.92" OD medium duty alum mast 98.99
MA-1050 5' x 2" OD medium duty alum mast 67.99
MA-2010 10' x 2.375" OD heavy duty alum mast T 120.99
MA-2069 9' x 2.375" OD heavy duty alum mast 109.99
MA-5050 5' x 1.31" OD light duty alum mast 45.99
MP-1403 9' heavy duty fiberglass mast 142.99

TOWER CLIMBING EQUIPMENT

FP-56222 MB/LC/2-D/B-C/S-L harness $ 85.99

Glen Martin - continued AES Price

FP-56224 MB/LC/2-D/B-C/L-XL harness 85.99
FP-56422 MB/LC/4-D/B-H-C/S-L harness 99.99
FP-56424 MB/LC/4-D/B-H-C/L-XL harness 99.99
FP-66611 TB/LC/6-D/B-H-C-SD/S harness 240.99
FP-66612 TB/LC/6-D/B-H-C-SD/M harness 240.99
FP-66613 TB/LC/6-D/B-H-C-SD/L harness 240.99
FP-66614 TB/LC/6-D/B-H-C-SD/XL harness 240.99
FP-75421 TB/LC/4-D/B-H-C/S harness 168.99
FP-75422 TB/LC/4-D/B-H-C/M harness 168.99
FP-75423 TB/LC/4-D/B-H-C/L harness 168.99
FP-75424 TB/LC/4-D/B-H-C/XL harness 168.99
FP-26004 1" x 4' web lanyard 25.99
FP-26006 1" x 6' web lanyard 25.99
FP-29002 1" x 2' Centurion lanyard 32.99
FP-29003 1" x 3' Centurion lanyard 33.99
FP-29004 1" x 4' Centurion lanyard 34.99
FP-29006 1" x 6' Centurion lanyard 36.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. You can obtain shipping charges from any AES salesperson by phone or email. There is a $10 surcharge on all Glen Martin orders under $120. There is also a $75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

GROTHE (GRO)

VS-2 Emergency vehicle siren $ 89.99
VS-2LS/A Window mt siren/amber halogen spec ord 299.99
VS-2LS/B Window mt siren/blue halogen spec ord 299.99
VS-2LS/R Window mt siren/red halogen spec ord 299.99
VS-3 Volunteer vehicle PA/horn w/spkr 129.99
VS-4 P/A emergency vehicle siren w/spkr 139.99

GRUNDIG/ETON (GRU)

E-1 Portable AM/FM/SW/XM* ready rcvr/ps ... $499.99
*Subscription & ant required for XM satellite radio
(AUD) **CNP-1000** Integrated XM tuner/ant D 49.99
(AUD) **CNP-2000** XM tuner cartridge 29.99
(AUD) **CNP-2000H** XM home dock/antenna .. 29.99
E-5 Portable AM/FM/SW receiver w/ps D 149.99
E-10 Portable AM/FM/SW receiver w/ps D 129.99
E-100 Portable AM/FM/SW receiver 99.99
FR-100 AM/FM/clock/emergency light D 19.99
FR-200 AM/FM/SW/flashlight/crank 39.99
FR-250 AM/FM/SW/flashlight/crank/cell cgr 49.99
FR-300 AM/FM/WX/TV sound/flashlight/cell cgr 49.99
FR-400 AM/FM/WX/TV sound/flashlight/cell cgr 59.99
G-5 Portable AM/FM/SW receiver w/ps 149.99
G-1100 Pocket AM/FM/SW receiver 49.99
G-2000A Porsche design AM/FM/SW Rcvr ...D 69.99
GM-300PE Gray mini AM/FM/SW receiver 29.99
GS-350DL Black portable AM/FM/SW Rcvr w/ps . 99.99
MiniWorld 100PE Mini AM/FM/SW receiver .D 24.99
S-350DL Black portable AM/FM/SW Rcvr w/ps D 99.99
Yacht Boy 550 Port AM/FM/SW receiver w/ps D 79.99

HAL (HAL)

DXP-38 External DSP HF radio modem $395.99
RTTY-1 RTTY tuning indicator 99.99

HARGER (HRG)

GBIS18114AE 1/8" copper entrance ground bar kit $ 39.99
GBIS18148AE 1/8" copper station ground bar kit 83.99
GEL3AE Package of 5 HD grounding lugs 26.99
GP1868.78AE 1/8" copper single pt gnd panel kit 76.99
GBX976AE NEMA-4x weatherproof enclosure 127.99

HEIL (HEI)

BM-5-4 Boom mic/single headset (HC-4) $ 74.99

Heil - continued AES Price

BM-5-5 Boom mic/single headset (HC-5) 74.99
BM-5-iC Boom mic/single headset/adapter; Icom 94.99
BM-10-4 Boom mic/headset (HC-4) 99.99
BM-10-5 Boom mic/headset (HC-5) 99.99
BM-10-iC Boom mic/headset/adapter; Icom . 119.99
BAG-2 Leatherette travel bag for BM-10 ... 20.99
PRO-SET-4 Deluxe boom mic/headset (HC-4) 135.99
PRO-SET-5 Deluxe boom mic/headset (HC-5) 135.99
PRO-SET-iC Dlx boom mic/headset/adapter; Icom 147.99
PRO-SET-PLUS Dlx boom mic/headset (HC4&5) 210.99
PRO-SET-PLUS-iC Dlx bm mic/hdset (HC4&5); Ico 227.99
PSQP-4 Pro-Set Quiet Phone 4 boom mic/headph 225.99
PSQP-5 Pro-Set Quiet Phone 5 boom mic/headph 225.99
PSQP-iC Pro-Set Quiet Phone;Icom bm mic/headph 242.99
AD-1-I Pro-Set 8-pin adapter cord for Icom 20.99
AD-1-IC Pro-Set 8-pin adapter cord; Icom . 20.99
AD-1-ICM ProSet modular adapter cord; Ico 20.99
AD-1-IM Pro-Set modular adapter cord; Ico 20.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood 20.99
AD-1-K-M Pro-Set modular adapt cord; Ken 20.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec . 20.99
AD-1-Y Pro-Set 8-pin adapter cord; Yaesu 20.99
AD-1-Y-M Pro-Set modular adapt cord; Yae 20.99
HTSS Single side Traveler headset 71.99
HTDS Dual side Traveler headset 91.99
HTA-IHT Traveler adapter for Icom HT 23.99
HTA-KHT Traveler adapter for Kenwood HT . 23.99
HTA-VX Traveler adapter; Yaesu VX HT (not VX7) 23.99
HSTA-706 Traveler adapter; Icom IC-703/706 23.99
HSTA-IC8 Traveler adapter for Icom 8-pin 23.99
HSTA-K8 Traveler adapter for Kenwood 8-pin ... 23.99
HSTA-KM Traveler adapter; Kenwood modular .. 23.99
HSTA-YM Traveler adapter for Yaesu modular .. 23.99
GM-4 Goldline dual element studio mic w/HC-4 145.99
GM-5 Goldline dual element studio mic w/HC-5 145.99
GM-V Goldline vintage studio mic/matching xfmr 145.99
HCL-4 Classic 1930's desk mic/studio el & HC-4 240.99
HCL-5 Classic 1930's desk mic/studio el & HC-5 240.99
HM-10-4 Microphone with HC-4 element D 80.99
HM-10-5 Microphone with HC-5 element D 80.99
HM-10-Dual Mic w/HC-4 & HC-5 elements ... 128.99
ICM Pre-PRO Icom electret mic w/cable 95.99
CC-1-C 3/16" plug cable for Collins/Drake ... 40.99
CC-1-D 4-pin cable for Drake D 18.99
CC-1-I 8-pin cable for Icom 35.99
CC-1-I-M Modular cable for Icom 35.99
CC-1-K 8-pin cable for Kenwood 35.99
CC-1-K-M Modular cable for Kenwood 35.99
CC-1-T Cable for Ten-Tec 35.99
CC-1-Y 8-pin cable for Yaesu 35.99
CC-1-Y-M Modular cable for Yaesu 35.99
HSTA-706 Adapt; HM-I - Ico 706/703/modular 23.99
PL-2T Topless proline boom 89.99
DT-1 Desk top flush mount 31.99
FL-1/FL-2 Flange mount for PL-2T 25.99
RS-1 Riser 12" flange mount for PL-2T .. 25.99
SB-2 Small adjustable mic boom 42.99
HM-4 Handi-Mic hand microphone w/HC-4 .. 80.99
HM-5 Handi-Mic hand microphone w/HC-5 .. 80.99
HM-iC Handi-Mic hand mic/electret element; Ico 80.99
HM-PRO Handi-Mic hand mic/broadcast element 80.99
CH-1-I 8-pin coiled cable for Icom 23.99
CH-1-I-M Modular coiled cable for Icom 23.99
CH-1-K 8-pin coiled cable for Kenwood 23.99
CH-1-K-M Modular coiled cable for Kenwood 23.99
CH-1-Y-M Modular coiled cable for Yaesu . 23.99
PR-20 Cardioid dynamic studio microphone 125.99
PR-40 Broadcast & recording studio microphone 269.99
CC-1-XLR-I 3-pin XLR to 8-pin Icom cable 35.99
WSPR-40 Windscreen for PR-40 17.99
PR-780 Dynamic cardiod studio mic D 299.99
WSPR-40 Windscreen 17.99

Heil - continued

		AES Price
PR-780-PTT	Dynamic cardiod studio mic	265.99
CC-1-XLR-I	3-pin XLR to 8-pin Icom cable	35.99
CC-1-XLR-K	3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y	3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40	Windscreen	17.99
HQP	Quiet Phone Noise cancelling headphones	99.99
BAG-2	Leatherette travel bag for HQP	20.99
AD-100	Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	20.99
Boom Clip	for BM-series	5.99
CB-1	Classic base	58.99
CB-1-PTT	Classic base w/soft PTT switch	69.99
Ear Pads	for **PRO**-series ... pair	6.99
FS-2	Dual switch foot switch	38.99
Ham Radio Handbook		10.00
HC-4	DX'ers 'dream machine' mic element	45.99
HC-5	Full-range microphone element	45.99
HD-AT	6db headph attenuator, ⅛"m-¼"f adapt	6.99
HS-2	Magnum ergonomic hand switch	29.99
SM-1	Shock mount for any microphone boom	50.99
TM-1	Tri-mount microphone adapter	14.99
XT-1	Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

HIGH SIERRA (HIS)

Platinum Pack	3.5-60MHz mobile ant w/6' whip	$545.00
HS-120/Spurs	Capacity hat	50.00
HS-202CL	2" rcvr lay back adapter; univ mtg bkt	130.00
HS-214CL	1¼" rcvr lay back adapt; univ mtg bkt	130.00
i-Box 7000	Box for IC-7000	110.00
Sidekick	3.5-60MHz mobile ant w/3' whip	395.00
Hitchin Post	3/8-24 trailer hitch mount	50.00
i-Box 7000	Box for IC-7000	110.00
Stake Hole Mt	SO-239 to 3/8-24 mount	27.00
Sidekick w/**i-box**/i-tenna	3.5-60 mob/3' whip; Ico	445.00
Hitchin Post	3/8-24 trailer hitch mount	50.00
Stake Hole Mt	SO-239 to 3/8-24 mount	27.00
Tripod Deluxe	6' tripod/3/8-24/SO239/8 radials	130.00

HobbyZone (HBZ)

4500	Firebird Outlaw RTF electric red airplane Δ	$ 24.99
4505	Firebird Outlaw RTF electric green airplane Δ	24.99
1026	DC peak charger Δ	6.99
1011	6v 600mah NiMH battery Δ	9.99
1012	7.2v 900mah NiMH;2500/3500/4000 Δ	9.99
1013	8.4v 900mah NiMH;2500/3500/4000 Δ	9.99
2015	3-hr wall charger for 4000 Δ	2.99
4020	Sonic combat module; 2500 Δ	6.99
4025	Stealth target/combat module; 2500/4000 Δ	4.99
6023	Aerial drop module; 2500/4000 Δ	8.99
7809	7.2v 1100mah battery for 7800 Δ	14.99

House of Deals (HOU)

FL-307T	9 LED/3 AAA flashlight w/carrying case	$ 9.99
FL-3232T	32 LED/3 D flashlight	24.99
FL-8211B	11 LED/3 AAA head/bike lamp	9.99

HUSTLER (HUS)

RM-80	80m CW 400w PEP resonator	$ 28.99
RM-75	75m phone 400w PEP resonator	28.99
RM-60	60m phone 400w PEP resonator	28.99
RM-40	40m 400w PEP resonator	26.99
RM-30	30m 400w PEP resonator	26.99
RM-20	20m 400w PEP resonator	23.99
RM-17	17m 400w PEP resonator	23.99
RM-15	15m 400w PEP resonator	16.99
RM-12	12m 400w PEP resonator	16.99
RM-11	CB 400w PEP resonator	16.99
RM-10	10m 400w PEP resonator	16.99
RM-80S	80m CW 2kw PEP resonator	53.99
RM-75S	75m phone 2kw PEP resonator	53.99
RM-40S	40m 2kw PEP resonator	38.99
RM-20S	20m 2kw PEP resonator	30.99
RM-15S	15m 2kw PEP resonator	26.99
RM-11S	CB 2kw PEP resonator	25.99

Hustler - continued

		AES Price
RM-10S	10m 2kw PEP resonator	25.99
MO-1	54" mast for fender or deck mount	33.99
MO-2	54" mast for bumper mount	33.99
MO-3	54" no break-over mast	25.99
MO-4	22" mast for special applications	21.99
VP-1	Tri-band adapter	6.99
RSS-2	Resonator spring	12.99
QD-2	Stainless quick disconnect	21.99
L-14-144	12' RG-58, PL-259 to lugs	9.99
L-14-240	20' RG-58, PL-259 to lugs	12.99

STAINLESS 2" MOBILE BALL MOUNTS

SSM-1	Ball & spring, cadmium hardware	$ 49.99
SSM-2	Ball, cadmium hardware	28.99
SSM-3	Stainless steel spring	26.99

1-1/2" MOBILE BALL MOUNTS

C-32	Chrome plated ball	$ 12.99
C-30	Chrome plated spring	12.99
C-29	Stainless steel spring	19.99
BM-1	Single strap bumper mt w/C-32	23.99

3/8-24 THREAD MOBILE MOUNTS

HLM	Trunk lip mount w/swivel	$ 24.99
HOT	Hustloff trunk lip mt w/swivel	25.99
MBM	Super magnet mount w/16' coax	21.99
RVM	Recreational vehicle mount	22.99
TLM	Trunk lip mount	23.99

HF ANTENNAS

4-BTV	40/20/15/10m 21' trap vertical	$139.99
5-BTV	80/40/20/15/10m 25' trap vertical	169.99
30-MTK	30m trap kit for 4-BTV/5-BTV	45.99
6-BTV	80/40/30/20/15/10m 24' trap vert	189.99

VHF/UHF BASE STATION ANTENNAS

G3-144	2m 3db 7.5' vertical antenna	$ 70.99
G6-144B	2m 6db 10' vertical antenna	129.99
G6-270R	2m/440 6db 7.6' base station ant	189.99
G7-144	2m 7db 15' vertical antenna	189.99
G7-220	220 MHz 7db 10' vertical antenna	159.99
G6-440	440 MHz 6db 7' vertical antenna	169.99

VHF/UHF MOBILE ANTENNAS

BBG-144	2m 3.4db NMO coil/whip only	$ 39.99
BBGT-144	2m 3.4db NMO trunk lip mt ant	49.99
BBG-440-5	440 5db NMO coil/whip only	39.99
BBGT-440-5	440 5db NMO trunk lip mt ant	49.99
BBL-144A	2m ¾" hole mt antenna, 3.4db ..D	14.99
BBLT-144A	2m trunk lip mt ant, 3.4db ..D	19.99
CG-144	2m ⅜-24 ant, 7' high, 5.2db	34.99
CGT-144	2m trunk mt ant, 7' high, 5.2db	55.99
CG-220	220 MHz ⅜-24 ant, 5.2db	34.99
CGT-220	220 trunk mt ant, 5.2db	55.99
LMB-144	2m 3.4db black NMO coil/whip only	22.99
LMB-440-5	440 5db black NMO coil/whip only	19.99
LMC-144	2m 3.4db NMO coil/whip only	23.99
LMC-270	2m/440 2.4/4db NMO coil/whip only	31.99
LMC-440-5	440 5db NMO coil/whip only	19.99
LMG-144	2m 3.4db NMO pushpin coil/whip only	25.99
LMG-440-5	440 5db NMO pushpin coil/whip only	19.99
MKR-2	Radial kit for CG/RX/SF-antennas	22.99
MX-2	2m 3.4db black & chrome NMO mag ant	34.99
MX-2B	2m 3.4db all black NMO mag mt ant	39.99
MX-220	220 3.4db blk & chrome NMO mag ant	34.99
MX-270	2m/440 2.4/4db chrome NMO mag mt ant	59.99
MX-440	440 5db blk & chrome NMO mag mt ant	36.99
MX-440B	440 5db all black NMO mag mt ant	39.99
RX-2	2m 3.4db magnetic mount ant	26.99
RX-220	220 3.4db magnetic mt antenna	26.99
RX-440	440 5db magnetic mt antenna	26.99
SF-2	2m ⅜-24 ant, 4' high, 3.4 db	16.99
SF-220	220 MHz ⅜-24 antenna, 3.4 db	16.99
THF	140-500 MHz ¼ wave trunk mount ant	24.99
UGM	140-500 MHz ¼ wave BNC mag mt ant	23.99
UHT-1	140-500 MHz ¼ wave roof mt ant	15.99

Hustler - continued

CB & MONITOR ANTENNAS

		AES Price
1C-11	White trunk mount CB antenna	$ 13.99
1C-11B	Black trunk mt CB antenna	13.99
1C-56	102" stainless whip ... pick-up only	19.99
1C-100	White magnetic mount CB antenna	19.99
1C-100B	Black magnetic mt CB antenna	19.99
DTG	25" fg double-talk gutter mt CB ant ...Δ	14.99
FG-27S	48" CB whip	11.99
HQ-27	Power Packer ⅜-24 CB whip	17.99
HQ-27M	Power Packer trunk mt CB antenna	36.99
HQD	Dual fg mirror mount CB antenna	49.99
HQT	Single fg mirror mount CB antenna	27.99
RQM	Magnetic mount CB antenna	19.99
RTG-27L	25" CB antenna w/rain gutter mt	26.99
RTM	25" magnetic mount CB antenna	16.99
RTS-27L	25" CB antenna w/roof mount	26.99
SCB/BLK	46" black CB whip	29.99
SCB/RED	46" red CB whip	29.99
SCB/WHT	46" white CB whip	29.99
SCB-S/BLK	35" black CB whip	29.99
SCB-S/RED	35" red CB whip	29.99
SCB-S/WHT	35" white CB whip	29.99
DCL-B	Discone monitor ant/50' coax/BNC plug	37.99
DCX	Discone monitor ant; 40-700 MHz	25.99
MOR-B	Roof/deck mt tri-band BNC monitor ant	20.99
MOT-B	Trunk lip mt tri-band BNC monitor ant	21.99
MRM-B	Magnet mt tri-band BNC monitor ant	21.99

HY-GAIN (HYG)

HF BEAM ANTENNAS

LJ-103BA	3el 7.9db 8' boom 10m beam	$159.99
LJ-105CA	5el 10.8db 24' boom 10m beam	289.99
LJ-153BA	3el 7.9db 12' boom 15m beam	209.99
LJ-204BA	4el 8.2db 26' boom 20 or 17m beam	539.99
TH-3JRS	3el 600w PEP 20/15/10m beam	359.99
TH-3MK4	3el 8db 14' boom 20/15/10m beam	469.99
TH-5MK2	5el 8.3db 19' boom 20/15/10m beam	699.99
TH-7DX	7el 8.77db 24' boom 20/15/10m beam	799.99
BN-86	3-30MHz balun for HF beam	79.99

MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ	40/20/15/10m 18' vertical ant	$169.99
AV-18AVQ II	80/40/20/15/10m vertical ant	229.99
AV-18HT	HyTower 80/40/20/15/10m 53' vert T*	849.99

***AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.**

AV-18HT-JR	HyTower Jr 40/20/15/10m 39' vert	349.99
AV-620	20/17/15/12/10/6m 22.5' vertical	299.99
AV-640	40/30/20/17/15/12/10/6m 25.5' vert	399.99
DX-88	80/40/30/20/17/15/12/10m 25' vert	369.99

VHF/UHF ANTENNAS

DB-218SAT	VHF/UHF Oscar Link system	$529.99
VB-25FM	5el 11.2db 75" boom 2m beam	59.99
VB-64DX	4el 10.4db 12' boom 6m beam	144.99

ANTENNA ROTORS

AR-40	3 sq ft antenna rotor/5-wire	$289.99
CD-45-II	8.5 sq ft antenna rotor/8-wire	389.99
HAM-IV	15 sq ft antenna rotor/8-wire	539.99
HAM-V	Digital 15 sq ft antenna rotor/8-wire	899.99
HDR-300A	Hvy duty dig 25 sq ft rotor/8-wire	1379.99
T-2X	Tailtwister 20 sq ft antenna rotor/8-wire	619.99
T-2XD	Tailtwister dig 20 sq ft ant rotor/8-wire	979.99

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1	Dig rotor control; CD-45/HAM-IV/T-2X	$649.99

Hy-Gain - continued

	AES Price
MSHD Lwr mast support; HAM-IV/V/T-2X/XD	99.99
MSLD Lower mast support; CD-45-II/AR-40 .	39.99
TSP-1 Tower spacer plate	34.99

See BELDEN for rotor cable

iBOTZ (IBO)

MR-1001 Soundtracker robot kit Δ	$ 14.99
MR-1002 Antoid robot kit Δ	24.99

IBS (IBS)

2007 2007 Passport to Worldband Radio	$ 22.95

ICC (ICC)

Nitelogger II Automatic tape recorder activator	$ 69.99

ICOM (ICO)

IC-7800 Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps	10599.99
(BET) **I-Mate** Message accessory	74.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
IC-756PRO III Xcvr/6m/IF-DSP/tuner/keyer .	2999.99
(BET) **I-Mate** Message accessory	74.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only**	179.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
OPC-025D Extra DC cable	29.99
SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
IC-746PRO Xcv/Rcv/6m/2m/IF-DSP/tuner/mic ..	*1499.99
*Price after mail-in rebate; rebate ends 10/31/06	
*Price w/instant coupon; coupon expires 10/31/06	
PS-125 ps FREE with IC-746PRO! thru 12/31/06	
(BET) **I-Mate** Message accessory	74.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only**	179.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	129.99
HM-36 Scanning hand mic	74.99
OPC-025D Extra DC cable	29.99
SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
IC-718 HF Xcvr/SW Rcvr/mic w/DSP	*549.99
*Price after mail-in rebate; rebate ends 10/31/06	
(BET) **706 Tune Control** for IC-718	32.99
(W4R) **OBF-703/718-DIY** CW&SB Collins filts	240.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only**	179.99
AT-180 Auto coax antenna tuner; HF+6m ..	369.99
OPC-598 23' extension cable; AT-180	73.99
CR-338 High stability crystal unit	81.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-718	
MB-5 Mobile mount	59.99

Icom - continued

	AES Price
MB-23 Side mount carrying handle	15.99
OPC-025D Extra DC cable	29.99
OPC-599 7+8-pin to 13-pin adapter	60.99
SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
SP-10 Slim-line external speaker	69.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
UT-106 Plug-in DSP unit	139.99
IC-703 Plus 10w mini HF+6m Xcvr/tuner/DSP	699.99
(W4R) **OBF-703/718-DIY** CW&SB Collins filts	240.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only**	179.99
AH-703 40/20/15/10/6m 20w 4.6' antenna	199.99
BC-155A Battery charger for BP-228	29.99
BP-228 9.6v 2800mah external nicad pack	89.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-703 series	
HM-154T TTP microphone	75.99
LC-156 Back pack carrying case	99.99
MB-62 Mounting bracket for main unit	25.99
MB-63 Mounting bracket for control panel	18.99
MB-65 Mounting base platform	35.99
MB-72 Carrying handle	14.99
OPC-581 11.5' separation cable	60.99
OPC-587 16' separation cable	79.99
OPC-599 7+8-pin to 13-pin adapter	60.99
OPC-742 13-pin cable	60.99
OPC-1229 Extra DC cable	28.99
OPC-1248 IC-703 to PS-125 cable	14.99
RMK-706 Package; MB-62/MB-63/OPC-581	70.99
SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
OPC-589 8-pin to jack adapt; SM-6/8/20	35.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
IC-706 Mk II-G Mini HF Xcvr/6m/2m/440/DSP	*899.99
*Price after mail-in rebate; rebate ends 10/31/06	
RMK-706 FREE with IC-706 Mk II-G! thru 12/31/06	
(BET) **706 Tune Control** for IC-706 series ...	32.99
(W4R) **Antenna Boss II** interface;mot ant/IC706	149.99
PS-125 25A switching power supply	299.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only**	179.99
AT-180 Auto coax antenna tuner; HF+6m ..	369.99
OPC-598 23' extension cable; AT-180	73.99
CR-282 High stability crystal unit; Mk II G .	149.99
Suggest dealer install; CR-282, IC-706 Mk II-G	
CT-17 CI-V level converter	129.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	89.99
HM-154T TTP microphone	75.99
LC-156 Back pack carrying case	99.99
MB-62 Mounting bracket for main unit	25.99
MB-63 Mounting bracket for control panel	18.99
MB-65 Mounting base platform	35.99
MB-72 Carrying handle; Mk II-G only	14.99
OPC-025D Extra DC cable	29.99
OPC-581 11.5' separation cable	60.99
OPC-587 16' separation cable	79.99
OPC-599 7+8-pin to 13-pin adapter	60.99

Icom - continued

	AES Price
OPC-742 13-pin cable	60.99
RMK-706 Package; MB-62/MB-63/OPC-581	70.99
SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
OPC-589 8-pin to jack adapt; SM-6/8/20	35.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
IC-7000 Deluxe mini HF/6m/2m/440 Xcvr ...	1499.99
(W4R) **Antenna Boss II** interface;mot ant/IC7000	149.99
AH-4 80-6m 120w auto wire ant tuner	259.99
AH-2B Whip w/mt; 40-6m use tuner	349.99
AH-2B extra **whip only**	179.99
AT-180 Auto coax antenna tuner; HF+6m ..	369.99
OPC-598 23' extension cable; AT-180	73.99
CT-17 CI-V level converter	129.99
HM-154T TTP microphone	75.99
LC-156 Back pack carrying case	99.99
MB-62 Mounting bracket for main unit	25.99
MB-65 Mounting base (MB-105 required) .	35.99
MB-105 Remote head bracket	20.99
MB-106 Carry handle	20.99
OPC-599 7+8-pin to 13-pin adapter	60.99
OPC-742 13-pin cable	60.99
OPC-1443 11.5' remote cable	60.99
OPC-1444 16' remote cable	80.99
OPC-1457 Extra DC cable	28.99
RMK-7000 Package; MB-62, MB-105, OPC-1443	95.99
SM-6 Desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
OPC-589 8-pin to jack adapt; SM-6/8/20	35.99
SP-10 Slim-line external speaker	69.99
AH-710 1.9-30 MHz 80' folded dipole/98' coax	269.99
PW-1 160-15+6m linear amplifier/ps/tuner	4699.99

RECEIVERS

R-5-06 .15M-1.3G AM/FM hand/batts/cgr/cell blkd	*189.99
*Price after mail-in rebate; rebate ends 10/31/06	
R-5-11* Handheld Rcvr/restricted sales!	199.99
AD-92SMA SMA- BNC adapter	16.99
CP-18A Cig lighter cable	30.99
CS-R5 Win programming software	40.99
OPC-474 Cloning cable (R-5 to R-5)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HP-4 Lightweight headphones	29.99
LC-146A Carrying case	24.99
SP-13 Earphone	4.99
R-3-26 .5M-2.45G AM/FM/TV hand Rcvr/cell blkd	*334.99
*Price after mail-in rebate; rebate ends 10/31/06	
R-3-27* Rcvr/TV/restricted sales! special order	489.99
BC-135 Desktop charger w/adapter cup	80.99
BP-206 Extra 3.7v 1650mah lith ion batt .	63.99
CP-18A Cig lighter cable	30.99
CS-R3 Win programming software	24.99
OPC-474 Cloning cable (R-3 to R-3)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HP-4 Lightweight headphones	29.99
LC-151 Carrying case	24.99
SP-13 Earphone	4.99
R-20-06 150KHz-3.3GHz handheld Rcvr/cell blkd	*484.99
*Price after mail-in rebate; rebate ends 10/31/06	
R-20-11* Handheld Rcvr/restricted sales! ..	509.99
BC-156-02 Desktop charger	80.99
BP-206 Extra 3.7v 1650mah lith ion batt .	63.99
CP-18A Cig lighter cable	30.99
CS-R20 Cloning software/USB cable; R-20	56.99
CT-17 CI-V level converter	129.99
LC-158 Carrying case	29.99
MB-86 Swivel belt clip	9.99
SP-13 Earphone	4.99

Icom - continued

	AES Price
PCR-1000-07 BON* PC Rcv/restricted sales! D	449.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
OPC-131 DC power cord ..... D	13.99
SP-10 Slim-line external speaker	69.99
UT-106 Plug-in DSP unit	139.99
PCR-1500-25 PC control Receiver/cell blkd .	579.99
PCR-1500-30* PC Rcv/restricted sales! spec order	579.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
CP-12L Right angle cig cable w/filter	36.99
OPC-254L Right angle mini DC pwr cable .	14.99
OPC-441 16.4' speaker extension cable	33.99
SP-10 Slim-line external speaker	69.99
UT-106 Plug-in DSP unit	139.99
R-1500-05 Receiver w/remote head/cell blkd	699.99
R-1500-10* Rcvr/restricted sales! special order	699.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
CP-12L Right angle cig cable w/filter	36.99
OPC-254L Right angle mini DC pwr cable .	14.99
OPC-441 16.4' speaker extension cable	33.99
SP-10 Slim-line external speaker	69.99
UT-106 Plug-in DSP unit	139.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
UT-122 P-25 digital board	199.99
PCR-2500-25 Advanced PC ctl Rcvr/cell blkd .	849.99
PCR-2500-30* PC Rcv/restricted sales! spec order	849.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
CP-12L Right angle cig cable w/filter	36.99
OPC-254L Right angle mini DC pwr cable .	14.99
OPC-441 16.4' speaker extension cable	33.99
SP-10 Slim-line external speaker	69.99
UT-106 Plug-in DSP unit	139.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
UT-122 P-25 digital board	199.99
R-2500-05 Advanced Rcvr w/rem head/cell blkd .	999.99
R-2500-10* Rcvr/restricted sales! special order	999.99
AH-7000 25-1000 MHz discone ant w/coax	169.99
CP-12L Right angle cig cable w/filter	36.99
OPC-254L Right angle mini DC pwr cable .	14.99
OPC-441 16.4' speaker extension cable	33.99
SP-10 Slim-line external speaker	69.99
UT-106 Plug-in DSP unit	139.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
UT-122 P-25 digital board	199.99
BON CS-40 Bonito soft; PCR-1000-02/07 ..Δ	68.99
CS-R2 DOS programming software; R-2 .....D	.49
CS-R10 DOS programming software; R-10 D	.99
CSW-HHRX Win prog soft/cable; R-10/R-2 D	9.99
FA-B01RE Extra BNC duck antenna .....D	9.99
FA-B02RE High sensitivity VHF BNC duck ..D	9.99
LC-140 Carrying case for R-10 .....D	9.99
R-75 .03-60 MHz shortwave Rcvr w/DSP	599.99
CR-282 High stability crystal unit	149.99
CT-17 CI-V level converter	129.99
FL-52A 500 Hz 455 KHz IF CW filter	179.99
FL-53A 250 Hz 455 KHz IF CW filter	179.99
FL-100 500 Hz 9 MHz IF CW filter	119.99
FL-101 250 Hz 9 MHz IF CW filter	119.99
FL-103 2.8 KHz 9 MHz IF SSB filter	109.99
FL-222 1.9 KHz 455 KHz IF SSB filter	199.99
FL-223 1.9 KHz 9 MHz IF SSB filter	99.99
FL-232 350 Hz 9 MHz IF CW/RTTY filter	89.99
FL-257 3.3 KHz 455 KHz IF SSB filter	199.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
OPC-869 DC cable	55.99
RS-R75 PC control software w/RS-232 cable	80.99
OPC-478 PC RS-232C cable	45.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99
R-8500* Rcvr/restricted sales! _special order	1699.99
AH-7000 25-1000 MHz discone ant w/coax	169.99

Icom - continued

	AES Price
CR-293 High stability xtal unit	289.99
FL-52A 500 Hz CW filter	179.99
MB-12 Mobile mount; R-8500	59.99
MB-23 Side mount carrying handle	15.99
RS-R8500 PC control software w/RS-232 cbl	80.99
SP-23 Speaker w/audio filters	199.99
UT-102 Voice synthesizer	74.99

*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase unblocked models of PCR-1000/PCR-1500/PCR-2500/R-3/R-5/R-20/R-1500/R-2500/R-8500 for official government or communications utility company use only. Mail or FAX purchase order to AES. Exports: inquire.

BC-96 Wireless mic holder; IC-2100H .....D	19.99
CS-2100 DOS cloning software; IC-2100H ..D	6.99
CSW-2100 Win prog soft/cable; IC-2100H ...Δ	29.99
HM-90A Wireless microphone; IC-2100H ....D	69.99
HM-133S Extra TTP mic; IC-2100H ..... Δ	89.99
MB-28H Mobile bkt; 2100H/207H/2800H ...Δ	19.99
OPC-346 9.8' DC cable; 2100H/207H/2800H Δ	28.99
OPC-872 Controller extension cable; 2800H D	6.99
IC-2200H 65w 2m FM Xcvr w/WX alert	*159.99
*Price after mail-in rebate; rebate ends 10/31/06	
CS-2200H Windows cloning software	80.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
MB-17A Quick release bracket	49.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99
IC-V8000 75w 2m FM Xcvr w/WX alert/scan	*179.99
*Price after mail-in rebate; rebate ends 10/31/06	
CS-V8000 Windows cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
UT-108 DTMF decoder unit	35.99
V8000-MMB Extra mobile bracket	26.99
IC-208H 55w 2m/50w 440 FM Xcvr/WX alert	*309.99
*Price after mail-in rebate; rebate ends 10/31/06	
CS-208 Win cloning software	35.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
MB-17A Quick release bracket	49.99
MB-58 Remote controller bracket	39.99
MB-65 Mounting base platform	35.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-601R 23' separation cable	67.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
IC-2720H 50w 2m/35w 440 FM Xcvr/WX alert	*379.99
*Price after mail-in rebate; rebate ends 10/31/06	
CS-2720 Win/DOS cloning software	35.99
OPC-478 PC RS-232C cable	45.99

Icom - continued

	AES Price
OPC-478U PC USB cable	60.99
MB-17A Quick release bracket	49.99
MB-84 Extra remote controller bracket	18.99
MB-65 Mounting base platform	35.99
MB-85 Combination bracket	25.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-474 Radio to radio cloning cable	18.99
OPC-589 8-pin mic jack adapter cable	35.99
OPC-1132 9.8' DC cable	28.99
OPC-1156 11.5' separation cable	26.99
SP-10 Slim-line external speaker	69.99
IC-910H 100w 2m/75w 430 FM/SSB Xcvr	1279.99
PS-125 25A switching power supply	299.99
AG-25 2m mast mounted GaSFET preamp .	159.99
AG-35 430 MHz mast mounted preamp	169.99
CR-293 High stability xtal unit	289.99
CT-17 CI-V level converter	129.99
FL-132 500 Hz main Rcvr CW filter	119.99
FL-133 500 Hz sub band Rcvr CW filter	119.99
MB-5 Mobile mount	59.99
MB-23 Side mount carrying handle	15.99
SM-20 Deluxe desk microphone	199.99
SP-10 Slim-line external speaker	69.99
UT-102 Voice synthesizer	74.99
UT-106 Plug-in DSP unit (one per band) ...	139.99
UX-910 10w 1.2GHz module	529.99
ID-1 10w 1.2GHz FM/128k analog/digital Xcvr	*979.99
*Price after mail-in rebate; rebate ends 10/31/06	
MB-17A Quick release bracket	49.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-1132 9.8' DC cable	28.99
SP-10 Slim-line external speaker	69.99
ID-800 55w 2m/50w 440 FM analog/dig Xcvr	*609.99
*Price after mail-in rebate; rebate ends 10/31/06	
CS-D800 Cloning software	45.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
MB-17A Quick release bracket	49.99
OPC-347 23' DC cable	46.99
OPC-440 16.4' mic extension cable	85.99
OPC-441 16.4' speaker extension cable	33.99
OPC-601R 23' separation cable	67.99
OPC-1132 9.8' DC cable	28.99
OPC-1384 RS-232C data cable	35.99
SP-10 Slim-line external speaker	69.99
IC-91A 5w 2m/440 D-Star upgradeable HT	369.99
UT-121 Digital board for D-Star	199.99
IC-91AD 5w 2m/440 D-Star compatible HT	524.99
AD-92SMA SMA- BNC adapter	16.99
BC-139 Desk rapid charger	94.99
BP-216 Battery case for 2 AA	35.99
BP-217 7.4v 1300mah lith ion battery	89.99
CP-12L Right angle cig cable w/filter	36.99
CP-19R Cig lighter cable w/filter	44.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-85 Headset w/VOX	89.99
LC-163 Carrying case	36.99
OPC-254L Right angle mini DC pwr cable .	14.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-782 Plug adapert cable; HS85/SP13 .	16.99
RS-91 Rem control software/RS-232 cable	55.99
SP-13 Earphone	4.99

D-STAR REPEATERS

ID-RP2C Repeater controller ....special order	1459.99
ID-RP2D 1.2GHz data module ..special order	1112.99
ID-RP2C/2D Rptr controller/data rptr spec order	2297.99

Icom - continued

	AES Price
ID-RP2L 10GHz backbone rptr ..special order	5209.99
ID-RP2V 1.2GHz voice repeater special order	1559.99
ID-RP2C/2V Rptr controller/voice rptr spec order	2969.99
ID-RP2D/V Complete D/V rptr package spec order	4119.99
ID-RP2D/V+Link D/V+link rptr pack spec order	9904.99
ID-RP2000V 2m voice repeater special order	1399.99
ID-RP4000V 440Mhz voice repeater special order	1399.99
IC-V8 5.5w 2m FM HT/battery/charger .....D	*109.99
*Price after mail-in rebate; rebate ends 10/31/06	
IC-V8 Sport 5.5w 2m FM HT/alkaline case .	99.99
BC-119-N01 Desk charger (adapter required)	65.99
AD-94-11 Adapter cup; BC-119-N01	10.99
AD-101 Batt adapt; BP-211/BC-119-N01	18.99
BC-144-01/21/N51 Desk cgr/adap; not N-series D	49.99
BC-144N Rapid desk charger	60.99
BP-208N Battery case	18.99
BP-209N 7.2v 1100mah 5.5w battery	40.99
BP-210N 7.2v 1650mah 5.5w battery	50.99
BP-211N 7.4v 1800mah lith ion battery	75.99
BP-222N 7.2v 600mah 5.5w battery	35.99
CP-17L Right angle cig cable for charger .	24.99
CS-V8 Cloning software for IC-V8	35.99
OPC-474 Cloning cable (V8 to V8)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HM-46L Slim-line spkr/mic, rt angle plug .	45.99
HM-54 Hvy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-51 Headset w/VOX	96.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LCF3G Swivel Leather case with swivel	50.99
MB-74N Spring loaded belt clip; orig batts	12.99
MB-86 Swivel belt clip; N-series batteries .	9.99
MB-87 Swivel belt clip; original batteries Δ	6.99
MB-103 Spring loaded belt clip; N-series batts	12.99
OPC-515L Right angle DC cord for charger	20.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
IC-V82 7w 2m FM HT/battery/charger	*119.99
*Price after mail-in rebate; rebate ends 10/31/06	
IC-U82 5w 440 FM HT/battery/charger	*159.99
*Price after mail-in rebate; rebate ends 10/31/06	
BC-144N Rapid desk charger	60.99
BP-208N Battery case	18.99
BP-209N 7.2v 1100mah 5.5w battery	40.99
BP-210N 7.2v 1650mah 5.5w battery	50.99
BP-211N 7.4v 1800mah lith ion battery	75.99
BP-222N 7.2v 600mah 5.5w battery	35.99
CS-V82 Cloning software for IC-V82/U82 ..	40.99
OPC-474 Cloning cable (HT to HT)	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Heavy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128L Rt angle plug earphone+mic	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
MB-86 Swivel belt clip	9.99
MB-103 Spring loaded belt clip; N-series batts	12.99
SP-13 Earphone	4.99
UT-108 DTMF decoder unit	35.99
UT-118 Digital board	199.99

Icom - continued

	AES Price
IC-T7H 6w 2m/440 FM HT/batt/cgr .....D	199.99
IC-T7H Sport 6w 2m/440 FM HT/alkaline case	169.99
IC-W32A 5w 2m/440 FM HT .....D	*279.99
*Price after mail-in rebate; rebate ends 10/31/06	
AD-51 Batt pack adapt; W32A/rapid cgr .Δ	9.99
AD-56 Batt pack adapt; T7H/T22A/rapid cgr Δ	18.99
BC-110A/BC-74 Extra wall charger .....Δ	25.99
BC-119-N11 Nicad/NiMH desk cgr (use adapt) Δ	89.99
BP-170 Battery case	35.99
BP-172 4.8v 950mah battery .....Δ	91.99
BP-173 9.6v 600mah battery .....Δ	119.99
BP-180 7.2v 600mah battery .....Δ	83.99
CP-12 Cig lighter cable w/filter .....Δ	36.99
CP-12L Right angle cig cable w/filter	36.99
CSW-32 DOS prog software for IC-W32A .D	7.99
OPC-474 Cloning cable W32A to W32A ..	18.99
OPC-478 PC RS-232C cable	45.99
CSW-HH4 Windows prog soft/cbl; T7H/W32A	50.99
OPC-474 Cloning cable	18.99
OPC-478 PC RS-232C cable	45.99
FA-1443B Extra 2m/440 dual band duck .Δ	29.99
HM-46 Slim-line speaker/mic	45.99
HM-54 Heavy duty spkr/mic	79.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-10 Boom mic/headset .....D	39.99
HS-10SA VOX unit .....D	49.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-128 Vinyl case; IC-W32A .....Δ	38.99
LC-136 Vinyl case; T7H w/BP170/171/172 D	24.99
LC-137 Vinyl case; T7H w/BP173/180 .....Δ	38.99
NCP-1 Nylon chest pack	39.99
OPC-254L Right angle mini DC pwr cable .	14.99
SP-13 Earphone	4.99
AD-28 Batt pack adapt for rapid cgr;2GXAT .D	6.99
AD-44 Batt adapter; rapid cgr; T21A .....D	.19
AD-81 Batt adapter for rapid cgr; IC-T2H ..Δ	17.99
AD-87 Batt pack adapter; rapid cgr; T81A .Δ	8.99
AD-88 PCB board; original BC-119-11 .....Δ	29.99
BC-119-N21 Nicad/NiMH desk cgr (use adapt);T81A Δ	99.99
BC-127A Extra nicad charger; IC-Q7 .....D	2.99
BC-133 Drop-in trickle charger; IC-T2H .....Δ	39.99
BC-122A AC adapter for BC-133 .....Δ	16.99
BM-112U/BC-16U Wall cgr; BP5A/7/8; IC-2AT Δ	19.99
BP-83 7.2v 600mah battery .....Δ	69.99
BP-90 AA alkaline battery case .....Δ	35.99
BP-194 AA alkaline battery case; IC-T2H ...Δ	18.99
BP-195 9.6v 700mah nicad batt; IC-T2H ...Δ	39.99
BP-196 9.6v 1050mah nicad batt: IC-T2H .Δ	40.99
BP-199 6v 700mah NiMH battery; IC-T81A D	24.99
BP-200L 9.6v 760mah NiMH battery; T81A Δ	79.99
CP-1 Cig cgr; BP-3/7/8//DC cord; IC-2AT ...Δ	19.99
LC-145 Carrying case for IC-T2H .....Δ	38.99
LCF3 Swivel Leather case w/swivel; IC-T2H Δ	39.99
IC-T90A 5w 6m/2m/440 FM HT/lith ion	*249.99
*Price after mail-in rebate; rebate ends 10/31/06	
AD-92SMA SMA- BNC adapter	16.99
BC-139 Desk rapid charger	94.99
BP-216 Battery case for 2 AA	35.99
BP-217 7.4v 1300mah lith ion battery	89.99
CP-19R Cig lighter cable w/filter	44.99
CS-T90A Windows cloning software; IC-T90A	35.99
OPC-474 Cloning cable (radio to radio) .	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable (Win XP only) ..	60.99
HM-46 Slim-line speaker/mic	45.99
HM-75A Remote control microphone	70.99
HM-128 Earphone+microphone	25.99

Icom - continued

	AES Price
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-85 Headset w/VOX	89.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	42.99
LC-152A Carrying case	24.99
MB-83 Swivel belt clip	9.99
SP-13 Earphone	4.99
IC-P7A 1.5w 2m/1w 440 FM submini HT/lith ion	239.99
BP-243 3.7v 1800mah lith ion battery	56.99
CP-21LR Cig cable w/filter	56.99
CS-P7 Windows cloning software	35.99
OPC-474 Cloning cable (radio to radio) .	18.99
OPC-478 PC RS-232C cable	45.99
OPC-478U PC USB cable	60.99
HM-128 Earphone+microphone	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
LC-161 Carrying case	36.99
OPC-782 Plug adapter cable for SP-13	16.99
SP-13 Earphone	4.99

ACCESSORIES

AG-25 2m mast mounted GaSFET preamp	$159.99
AG-35 430 MHz mast mounted preamp	169.99
CT-17 CI-V level converter	129.99
HM-12 Scan hand microphone	74.99
MB-23 Side mount carrying handle	15.99
OPC-137 Adapter cable; older Icom Xcvr ....D	6.99
PS-125 25A switching power supply	299.99
SM-6 Electret desk microphone	99.99
SM-20 Deluxe desk microphone	199.99
SP-5 Mobile speaker	39.99
SP-10 Slim-line external speaker	69.99
SP-20 Speaker w/audio filters	239.99
SP-23 Speaker w/audio filters	199.99

CONSUMER ELECTRONICS

A-24-LI 5w air handheld w/lith ion battery ...	$379.99
IC-M32 Waterproof 5w VHF marine handheld ...	149.99
IC-M72 Waterproof 6w VHF marine handheld	199.99
IC-M302WO2 White waterproof 25w VHF marine	159.99
IC-M402WO2 White waterproof 25w VHF marine D	149.99
M-710 (21) 150w HF marine SSB .spec order	1399.99
AT-130 HF marine auto ant tuner spec order	449.99
M-802 150w DSP marine SSB Xcvr spec order	1749.99
IC-4088A Dlx family radio service handheld Δ	79.99
BP-202 Nicad battery; IC-4008A/4088A .Δ	9.99
IC-F21-GM 15 ch 4w GMRS/FRS handheld ...	129.99

IDIOM PRESS (IDI)

K-5 Logikey CW keyer	$149.99
HK-3 Hook-up kit	10.99

International Ant (IAC)

40m double **Bazooka Shorty** 40' antenna ...Δ	$ 69.99
80m-S 80m half sloper 67' antenna .....Δ	59.99
40m-S 40m half sloper 33' antenna .....Δ	29.99

ISOTRON (ISO)

160C 160m 9.5' x 16" x 15" 100 KHz bandwidth ant	$173.99
80 80m 32" x 16" x 15" 110 KHz bandwidth ant	98.99
40 40m 22" x 16" x 15" 250 KHz bandwidth ant	88.99
20 20m 21" x 8" x 4" 350 KHz bandwidth ant	78.99
15 15m 21" x 1.5" x 4" 450 KHz bandwidth ant	78.99
10 10m 16" x 1.5" x 4" 1 MHz bandwidth ant	78.99
6 6m 16.5" x 2" x 4" 1.25 MHz bandwidth ant	78.99
80/40 Combo* 80/40m 32" x 16" x 30" ant .	177.99
*Requires coaxial "T's" & jumpers - not included	
40/20 Combo 40/20m combo antenna	167.99
20/15/10 Combo 20/15/20m combo ant	198.99

JR (JRP)

317275 XS3 synth FM pistol/1-Z590W/1-Z270 75M Δ	$149.99
SP-100 SC-1 fwd/rev speed control .....Δ	34.99

K-COM (KCO)

	AES Price
RF-1 Modular telephone 3-30 MHz RFI filter .	$ 16.99
RF-1/Low Modular phone .5-3 MHz RFI filter	16.99
RF-1/2-line 2-line modular 3-30 MHz RFI filt	22.99
RF-1/coiled Coiled cord modular 3-30MHz filt	22.99
RF-2 Hard-wired telephone 3-30 MHz RFI filt	10.99
RF-2/Low Hard-wired phone .5-3 MHz RFI filt	10.99

KANTRONICS (KAN)

KPC-3 Plus/128K Small packet TNC/128K RAM	$198.99
KPC-**9612 Plus/128K** 9600 controller/128K ...	388.99
(CSS) **Pacterm for Windows** Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor; KPC-3	12.99
APRS adapter cable; GPS to Kantronics TNC	32.99
Host Master II+ IBM software .....D	59.99
KAM 98 Single port multi-mode dig controller D	349.99
(CSS) **Pacterm for Windows** Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor; KAM 98	12.99
APRS adapter cable; GPS to Kantronics TNC	32.99
KAM XL All mode TNC w/DSP modems	409.99
(CSS) **Pacterm for Windows** Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor; KAM XL	12.99
APRS adapter cable; GPS to Kantronics TNC	32.99

KENT (KNT)

SK-1 Straight key	$129.99
SP-1 Single paddle key	139.99
TP-1 Dual paddle iambic key	149.99
VK-1 Vail Correspondent straight key	179.99

KENWOOD (KEN)

SP-950 Ext spkr/audio filters; TS-950SDX .....Δ	$149.99
TS-B2000 PC ctl HF/6m/2m/430 Xcvr/tuner	*1399.99
*Price w/instant coupon; coupon expires 12/30/06	
TS-2000 HF/6m/2m/430 Xcvr/ant tuner	*1619.99
*Price w/instant coupon; coupon expires 12/30/06	
UT-20 1.2GHz module Kenwood install only	
TS-2000LE Black face Xcvr w/3 accs .....D	1999.99
TS-2000X HF/6m/2m/430/1.2 Xcvr/tuner	*2099.99
*Price w/instant coupon; coupon expires 12/30/06	
KPS-15 23A switching ps w/fan, 25A surge	134.99
PS-53 Heavy duty 22.5A power supply	269.99
ARCP-2000 PC control soft; included w/TSB/LE	82.99
DRU-3A Digital recording unit; included w/LE	129.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
MB-430 Mobile mounting bracket	49.99
MC-43S Extra 8-pin hand mic w/up-down .	59.99
MC-57DM Back-lit TTP hand mic	79.99
MC-60A 8-pin amp desk mic w/up-down ..	149.99
MC-90 2-head DSP desk microphone	249.99
PG-2Y 13' DC cable	39.99
PG-2Z 6.5' heavy duty DC cable	37.99
RC-2000 Remote faceplate mobile kit	369.99
SP-23 External speaker	89.99
VS-3 Voice synthesizer; included w/LE	39.99
PS-52 Heavy duty power supply; TS-870S ...Δ	249.99
SP-31 External speaker; TS-870S .....Δ	99.99
TS-480HX 200w HF/100w 6m Xcvr	*1119.99
*Price w/instant coupon; coupon expires 12/30/06	
TS-480SAT 100w HF/6m Xcvr w/auto tuner	*1019.99
*Price w/instant coupon; coupon expires 12/30/06	
PS-53 Hvy duty 22.5A ps (use 2 for 200w)	269.99
E30-3489-05 Extra 6' DC cable for TS-480	38.99
HS-6 Lightweight headphones	59.99
MB-480 Carrying bracket w/handle	47.99
MC-43S Extra 8-pin hand mic w/up-down .	59.99
MC-47 Multi-function 8-pin hand mic	59.99
MC-60A 8-pin amp desk mic w/up-down ..	149.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-4Z 13' panel extension kit	58.99
PG-20 22' DC cable	46.99

Kenwood - continued

	AES Price
SO-3 TCXO unit	109.99
SP-23 External speaker	89.99
SP-50B High quality external mobile spkr ..	55.99
VGS-1 Voice guide & storage unit	67.99
YF-107C 500 Hz CW filter	119.99
YF-107CN 270 Hz CW filter	119.99
YF-107SN 1.8 KHz SSB filter	119.99
TS-570D(G) 9-band Xcvr/Rcv/AFDSP/tuner/mic	*919.99
*Price w/instant coupon; coupon expires 12/30/06	
TS-570S(G) 9-band Xcv/6m/Rcv/AFDSP/tune/mic	*1079.99
*Price w/instant coupon; coupon expires 12/30/06	
KPS-15 23A switching ps w/fan, 25A surge	134.99
PS-53 Heavy duty 22.5A power supply	269.99
DRU-3A Digital recording unit	129.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
MB-430 Mobile mounting bracket	49.99
MC-43S 8-pin hand mic w/up-down	59.99
MC-60A 8-pin amp desk mic w/up-down ..	149.99
MC-90 2-head DSP desk microphone	249.99
PG-2Y 13' DC cable	39.99
PG-2Z 6.5' heavy duty DC cable	37.99
SO-2 TCXO unit	179.99
SP-23 External speaker	89.99
SP-50B High quality external mobile spkr ..	55.99
VS-3 Voice synthesizer	39.99
YK-88C-1 500 Hz CW filter	129.99
YK-88CN-1 270 Hz CW filter	129.99
YK-88SN-1 1.8 KHz SSB filter	129.99
7-pin DIN plug	4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99
AT-50 External HF auto tuner .....Δ	329.99
PG-4M 18' extension cable for AT-50 .....Δ	29.99
HS-5 Deluxe headphones	79.99
HS-6 Lightweight headphones	59.99
KES-5 Heavy duty 40w unterminated speaker	59.99
KPS-15 23A switching ps w/fan, 25A surge .	134.99
LF-30A 1kw PEP low pass filter	64.99
MC-43S 8-pin hand mic w/up-down switch ..	59.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-3B 15A DC line noise filter	29.99
SP-50B High quality external mobile speaker	55.99
TU-7 Prog encoder; 2550/751A/TW-4100A .Δ	54.99
YK-107C 500 Hz CW filter; TS-50S .....Δ	129.99
TM-V708A 50w 2m/35w 440 FM Xcvr	399.99
TM-D700A 50w 2m/35w 440 FM/1200/9600 TNC .	*489.99
*Price w/instant coupon; coupon expires 12/30/06	
MB-201 Extra mobile bracket	25.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-4X 13' extension cable kit	69.99
PG-5A Packet data cable	15.99
SP-50B High quality external mobile spkr ..	55.99
VS-3 Voice synthesizer	39.99
TM-G707A 50w 2m/35w 440 FM Xcvr	279.99
DFK-3C 9' sep disp cable kit; TMG707A	44.99
DFK-4C 13' remote cable kit; TMG707A	64.99
DFK-7C Dlx 23' remote cable kit; TMG707A ...	99.99
MB-201 Extra mobile bracket	25.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-4S PC interface cable; TM-G707A	32.99
PG-5A Packet data cable	15.99
SP-50B High quality external mobile spkr ..	55.99
VS-3 Voice synthesizer	39.99
TM-271A 60w 2m FM Xcvr w/WX alert	169.99
MJ-88 Modular to 8-pin mic adapter	32.99
PG-2N Extra DC cable	17.99
PG-5D PC interface cable	78.99

Kenwood - continued

	AES Price
SP-50B High quality external mobile spkr ..	55.99
DFK-3 9' separate displ cable kit;642/742 ...Δ	28.99
DFK-4 13' remote cable kit; 642/742AD .....Δ	59.99
DFK-7 Dlx 22' remote cable kit;642/742 ....Δ	89.99
KQT-8/TSU-6 Prog CTCSS decoder; TM-541A Δ	49.99
MC-57DM Back-lit TTP mic;241/331/441/541 ..	79.99
MC-58DM Back-lit TTP mic;251/733/742/255/V7A	79.99
TSU-7 CTCSS decoder unit; TM-642/742AD Δ	59.99
UT-50S 50w 6m unit; TM-642/742AD .....Δ	329.99
BT-9 4-AA battery holder; TH-22 .....Δ	24.99
PB-34 9.6v 600mah 5w battery; TH-22 .....Δ	79.99
SC-45 Soft case for TH-G71A/PB-38/39 .....Δ	14.99
TSU-8 CTCSS decoder; TH22/42AT/TM461A Δ	59.99
TH-K2AT 5w 2m FM HT/battery/charger	139.99
TH-K2AT(K2) 5w 2m FM HT/batt holder ...Δ	99.99
BT-14 6-AA battery holder	19.99
EMC-3 Lapel clip mic/ear piece	24.99
HMC-3 VOX/boom mic headset	48.99
KHS-21 Boom mic headset	33.99
KSC-24 Rapid charger	48.99
PB-43N 7.2v 1100mah NiMH battery	44.99
PG-2W DC cable w/fuse	17.99
PG-3J Cig lighter cord w/filter	37.99
PG-4Y 9-pin PC programming cable	32.99
SC-54 Soft case	16.99
SMC-32 Mini water resist rt angle spkr/mic .	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag; TH-22/42AT	29.99
TH-D7A(G) 5w 2m/440 FM HT/1200/9600 TNC	*329.99
*Price w/instant coupon; coupon expires 12/30/06	
BC-19 Rapid charger	64.99
BT-11 4-AA battery holder	17.99
EMC-3 Lapel clip mic/ear piece	24.99
HMC-3 VOX/boom mic headset	48.99
J29-0631-13 Belt clip for batt; D7A/G71A .	4.99
PB-39 9.6v 600mah 5w battery	57.99
PG-2W DC cable w/fuse	17.99
PG-3J Cig lighter cord w/filter	37.99
PG-4W PC software/cable; TH-D7A(G)	55.99
SC-47B Black soft case for TH-D7A(G)	15.99
SC-47OR Orange soft case for TH-D7A(G) .	15.99
SMC-32 Mini water resist rt angle spkr/mic .	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag	29.99
TH-F6A 5w 2m/220/440 FM HT/lith ion	329.99
BT-13 AA battery case	25.99
EMC-3 Lapel clip mic/ear piece	24.99
HMC-3 VOX/boom mic headset	48.99
KHS-21 Boom mic headset	33.99
PB-42L Extra 7.4v 1550mah lithium ion batt	79.99
PG-2W DC cable w/fuse	17.99
PG-3J Cig lighter cord w/filter	37.99
PG-4Y 9-pin PC programming cable	32.99
SC-51 Soft case w/swivel belt clip	16.99
SMC-32 Mini water resist rt angle spkr/mic .	52.99
SMC-33 Speaker/mic w/remote control	65.99
SMC-34 Spkr/mic w/vol cont/function keys	32.99
WR-2 Water resistant bag	29.99

CONSUMER ELECTRONICS

TKM-707 150w HF marine SSB Xcvr spec order	1249.99
KAT-1 HF marine auto ant tuner ...spec order	569.99

KESTER (KES)

82-5000-0004 .5 oz 60/40 solder, .040 dia ..	$ 2.99

KLEINHUIS (KLE)

1309 Isolated grounding bar	$ 14.99

KOSS (KOS)

KTX/8 Collapsible stereophone w/vol control ...	$ 14.99

Koss - continued

Item	Description	AES Price
QZ/5	Passive noise reduction stereophone	49.99
QZ/50	Active noise reduction stereophone	49.99
QZ/99	Noise reduction stereoph w/mono sw	59.99
QZ/2000	Active noise reduction stereophone Δ	129.99
Y-88	Dual stereophone Y-adapter	4.99

KURANISHI (KUR)

Item	Description	AES Price
BR-210	1.8-170MHz SWR/antenna analyzer Δ	$399.99

LDG (LDG)

Item	Description	AES Price
MP-AL-Cable	Ali interface cable; AT-11MP .D	$ 1.99
MP-IC-Cable	Icom interface cbl; AT-11MP .D	1.99
AT-100Pro	160-6m 1-125w/100w 6m auto tuner	199.99
AT-200Pro	160-6m 5-250w/100w 6m auto tuner	229.99
AL-IC1	Alinco 10' interface cable D	20.99
Icom-IC1	Icom 10' interface cable	20.99
Icom-IC2	Icom 8" interface cable	8.99
K-OTT	Kenwood one-touch tune interface D	59.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
Y-ACC	FT857/897 interface cable	12.99
AT-200PC	160-6m 5-250w/100w 6m PC ctl tuner	239.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-897	Bolt-on auto tuner for Yaesu FT-897	199.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-7000	Tuner; IC7000/706/703/718/746/756	169.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
AT-1000	1000w PEP HF/100w 6m auto tuner	549.99
DTS-4	4-pos HF/6m 1500/250w ant switch	79.99
DTS-4R	Remote control for DTS-4	39.99
DTS-6	6-pos HF/6m 1500/250w ant switch	99.99
DTS-6R	Remote control for DTS-6	49.99
Z-11Pro	160-6m .1-125w/100w 6m auto tuner	179.99
AL-IC1	Alinco 10' interface cable D	20.99
Icom-IC1	Icom 10' interface cable	20.99
Icom-IC2	Icom 8" interface cable	8.99
K-OTT	Kenwood one-touch tune interface D	59.99
RBA-1:1	Remote 1:1 balun; short random	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
Y-ACC	FT857/897 interface cable	12.99
Z-100	160-6m .1-125w/50w 6m auto tuner	149.99
AL-IC1	Alinco 10' interface cable D	20.99
Icom-IC1	Icom 10' interface cable	20.99
Icom-IC2	Icom 8" interface cable	8.99
K-OTT	Kenwood one-touch tune interface D	59.99
RBA-1:1	Remote 1:1 balun; short random	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed	30.99
Y-ACC	FT857/897 interface cable	12.99
FT-METER	Multi-function meter for FT-857/897	49.99
MULTI-DC	12vdc distribution box	49.99
RCA-14	Transceiver cable breakout box	59.99
TW-1	160-10m 2kw PEP talking wattmeter/SWR	149.99
TW-2	6m-440 250w PEP talking wattmeter/SWR	149.99

LA CROSSE (LAC)

Item	Description	AES Price
WS-2010	Professional wireless weather stn D	$299.99
WS-2010-13	PC interface/software D	69.99
WS-3610UCH	Professional wireless weather stn	339.99
WS-7013U	Wireless temperature station D	19.99
WS-7013BZ	Wireless temperature station	21.99
WS-7014CH	Wireless forecast station	49.99
WS-7038UF	Wireless rain gauge	59.99
WS-8117U-Oak	Atomic clock/in/out temp/moon	39.99
WS-8025AL	Dlx sun/moon wireless WX station	159.99
WS-9016TWC	Sun/moon wireless weather stn	89.99
WT-5120	Projection alarm/out temp/in humidity	39.99
WT-5431	Projection alarm w/remote temp D	29.99
TX-3U	Extra temperature sensor w/LCD Δ	9.99
IR-101	Infra-red thermometer	49.99

La Crosse - continued

Item	Description	AES Price
RS-204U	Remote control outlet system	29.99

LAKEVIEW (LAK)

Item	Description	AES Price
9175	75m 7' Hamstick antenna	$ 29.99
9160	60m 7' Hamstick antenna	29.99
9140	40m 7' Hamstick antenna	29.99
9130	30m 7' Hamstick antenna	29.99
9120	20m 7' Hamstick antenna	29.99
9117	17m 7' Hamstick antenna	29.99
9115	15m 7' Hamstick antenna	29.99
9112	12m 7' Hamstick antenna	29.99
9110	10m 7' Hamstick antenna	29.99
9106	6m 4.5' Hamstick antenna	29.99
901	Dipole mount for 2 Hamsticks	16.99
IM-1	Inducti-match for 75-12m mobile ant	22.99
TM-1	License plate mount, ⅜-24	49.99

LARSEN (LAR)

27-31 MHz ANTENNA

Item	Description	AES Price
NMO-27B	10m black ant only (no mount)	$ 36.99
NMO-27C	10m ant only (no mount)	32.99

47-54 MHz ANTENNA

Item	Description	AES Price
NMO-50B	6m black ant only (no mount)	$ 36.99
NMO-50C	6m ant only (no mount)	32.99

144-174 MHz ANTENNAS

Item	Description	AES Price
NMO-150B	2m black ant only (no mt), 3 db	$ 33.99
NMO-150C	2m ant only (no mount), 3 db	30.99
OM-150CK	2m no ground plane antenna	69.99

440-460 MHz ANTENNAS

Item	Description	AES Price
NMO-440B	440 black ant only (no mt), 3.4db D	$ 34.99
NMO-440C	440 ant only (no mount), 3.4db	29.99

890-960 MHz ANTENNA

Item	Description	AES Price
NMO-900B	900 black ant only (no mt), 3.4db	$ 39.99
MM-2/70PL	2m/440 0/1.8db mag mt ant	59.99
NMO-2/70B	2m/440 blk ant only (no mt), 1.6/3.5db	74.99
NMO-2/70-SH	2m/440 ant (no mt), 0/1.8db	44.99
NMOQ-Spec	136-960 MHz ¼ wave ant (no mt)	9.99
NMOQ-Spec-B	136-960 black ¼ wv ant (no mt)	15.99
NMOQ-Spec-K	136-960MHz ¼ wv ¾" hole ant	24.99
NMO-Q-2/70-B	2m/440 ¼ wv cell look ant (no mt) D	38.99
GPS-NMO02	GPS NMO mount ant (no mt)	69.99
NMO-150450800	3-band scanner ant (no mt)	29.99

ON GLASS ANTENNAS

Item	Description	AES Price
KG-144-UD-PL	2m on glass antenna	$ 89.99
KG-220-UD-PL	220 on glass antenna D	79.99
KG-440-UD-PL	440 on glass antenna	73.99
KG-2/70-CX-PL	2m/440 on glass antenna	129.99
KG-Reinstall	Reinstall kit for KG-ants	8.99

KULDUCKIES - For Hand-helds

Item	Description	AES Price
KD4-2/70	2m/440 9" BNC Kulduckie	$ 39.99
KD4-146-HQ	2m 10.5" BNC Kulduckie	25.99
KD14-2M-HW	2m 44.5" BNC telescopic whip	38.99
KD14-445	440 6.5" BNC Kulduckie	19.99

ACCESSORIES

Item	Description	AES Price
BSA-K	144-512MHz base mtg kit; NMO/UHF ant	$ 53.99
HP-34	3/4" hole plugs (5)	3.99
NMO-B38	NMO mt hdw/A-7 NLA adapter D	12.99
NMO-CAP-B	Black rain cap for NMO mount	4.99
NMO-K	¾" hole mt w/coax for NMO ant	15.99
NMO-KHF-UD	¾" NMO hole mt/coax (less plug)	12.99
NMO-MMR	Round mag mt, coax for NMO ant	32.99
NMO-TLP	Low profile tnk lid mt, coax; NMO ant	29.99
PO-K	Roof mt, coax for SO-239 ant	32.99
PO-MM	Magnet mt, coax for SO-239 ant	36.99
RG-SS	Extra super seal NMO gaskets (3)	5.99
SPRING	Shock spring	10.99
TMB-34	Trunk mtg bkt for NMO antenna	5.99
TMB-34B	Black trunk mtg bkt for NMO ant	7.99
W-2/70B	2m/440 black replacement mobile whip	27.99

Larsen - continued

Item	Description	AES Price
W-KG2/70	2m/440 replacment on glass whip	29.99
W-490	49" replacement moible whip	8.99
W-490B	Black 49" replacement mobile whip	12.99

LIGHTWAVE (LIG)

Item	Description	AES Price
LW-HT	4 LED/3 AA-cell illuminator head torch	$ 39.99
LW-PB	1 LED/2 lith-cell pocket flashlight	19.99
LW-2000	4 LED/3 AA-cell flashlight	29.99
LW-3000	7 LED/3 C-cell flashlight	49.99
LW-4000	10 LED/3 D-cell flashlight	59.99

LOGSAT (LOG)

Item	Description	AES Price
Logsat Professional	Satellite tracking CDROM	$ 69.99

LOSI (LOS)

Item	Description	AES Price
A0014	XXX-4 4WD electric Competition buggy kit D	$169.99
A0090	XXX-T Sport RTR w/XR2i electric car Δ	169.99

M^2 (MSQ)

Item	Description	AES Price
15M-4DX	15m 8.5db 4el 33' 8" boom beam Δ	$449.99
6M-3	6m 50-50.6 or 51-54 6.4db 3el 6'9" bm beam	170.99
6M-5X	6m 50-50.5 or 51-54 9.4db 5el 18' bm beam	283.99
6M-7JHV	6m 50-50.4 10.9db 7el 30'8"bm beam	351.99
6M-HO-LOOP	6m 50-50.3 4.4db horiz loop ant	129.99
6" x 1/2"	3/8-24 mobile mast for loop	12.99
16" x 1/2"	3/8-24 mobile mast for loop	14.99
18" x 5/8"	3/8-24 mobile mast for loop	19.99
36" x 1/2"	3/8-24 mobile mast for loop	31.99
50" x 1/2"	3/8-24 mobile mast for loop	35.99
Mast/Top Bkt	Top bracket for mast; HO stack	21.99
2M-4	2m 7.5db 4el 4' boom beam	129.99
2M-7	2m 10.3db 7el 8'10" boom beam	144.99
2M-9SSB/FM	2m SSB or FM 12db 9el 14' 6" boom	168.99
2M-12	2m 12.8db 12el 19'6" boom beam	226.99
2M-5WL	2m 14.8db 17el 33' boom beam	283.99
2M-18XXX	2m 144-146 15.3db 18el 36'3" bm beam	328.99
2M-CP14	2m 10.3db 7h/7v 10'6"bm circ beam	226.99
2M-CP22	2m 12.5db 11h/11v 18'6"bm circ beam	329.99
PS-2M	2m polarity switch; circ pol beam	201.99
FG X-Boom Kit	For circular antennas, etc.	186.99
2M5-440XP	2m/440 9/12db 5/10el 5'8" boom Δ	169.99
2M-HO-LOOP	2m 144-144.5 4.86db horiz loop	56.99
6" x 1/2"	3/8-24 mobile mast for loop	12.99
16" x 1/2"	3/8-24 mobile mast for loop	14.99
18" x 5/8"	3/8-24 mobile mast for loop	19.99
36" x 1/2"	3/8-24 mobile mast for loop	31.99
50" x 1/2"	3/8-24 mobile mast for loop	35.99
Big-Foot	4x-mag mt; 2M-HO-LOOP stack/etc	129.99
MAG-KIT	Magnet mt kit; single 2m-HO-LOOP	28.99
Mast/Top Bkt	Top bracket for mast; HO stack	21.99
STACK-KIT	Stack kit for 2 2m-HO-LOOP's	80.99
EB-144/RK-2M	2m Eggbeater w/reflector kit	241.99
222-7EZ	220 9.8db 7el 5' 8" boom beam	129.99
222-10EZ	220 12db 10el 9' 9" boom beam	144.99
222-5WL	220 15.2db 15el 23'3" boom beam	226.99
222-7WL	220 16.4db 23el 32'5" boom beam	283.99
222-HO-LOOP	220-224 4.75db horiz loop ant	56.99
6" x 1/2"	3/8-24 mobile mast for loop	12.99
16" x 1/2"	3/8-24 mobile mast for loop	14.99
18" x 5/8"	3/8-24 mobile mast for loop	19.99
36" x 1/2"	3/8-24 mobile mast for loop	31.99
50" x 1/2"	3/8-24 mobile mast for loop	35.99
MAG-KIT	Magnet mt kit; single 222-HO-LOOP	28.99
Mast/Top Bkt	Top bracket for mast; HO stack	21.99
440-470-5W	440-470 7.8db 5el 2'2"bm beam D	109.99
420-50-11	432 11.3db 11el 5' bm rear mt beam	129.99
440-18	432 14.5db 18el 11'4" boom beam	170.99
440-21ATV	432 15.9db 21el 14'6" bm ATV beam	201.99
436-CP30	432 14.5db 15h/15v 9'9"bm circ beam	329.99
436-CP42UG	432 16.8db 21h/21v 18'10"bm circ	387.99
PS-70CM	432 polarity switch; circ pol beam	201.99
FG X-Boom Kit	For circular antennas, etc.	186.99
432-9WL	432 17.3db 28el 21' boom beam	244.99

M² - continued

	AES Price
432-HO-LOOP 430-436 5db horiz loop ant ...	56.99
6" x 1/2" 3/8-24 mobile mast for loop	12.99
16" x 1/2" 3/8-24 mobile mast for loop	14.99
18" x 5/8" 3/8-24 mobile mast for loop	19.99
36" x 1/2" 3/8-24 mobile mast for loop	31.99
50" x 1/2" 3/8-24 mobile mast for loop	35.99
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc	129.99
MAG-KIT Mag mt kit; single 432-HO-LOOP	28.99
Mast/Top Bkt Top bracket for mast; HO stack	21.99
STACK-KIT-70CM Stack kit; 2 432-HO-LOOP's	80.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit	226.99
23CM-22EZA 1.2GHz 16db 22el 5'2" bm beam	170.99
23CM-35 1.2GHz 18.4db 35el 10' bm beam ..	226.99
2M-2-Port-PD 2m 2-port type N power divider	79.99
70CM-2-Port-PD 432 2-port N power divider	79.99
23CM-2-Port-PD 1.2GHz 2-port N power divider	79.99
OR-2800PDC 35 sq ft azimuth rotor/control/8-wire	1598.99

MFJ (MFJ)

ANTENNA TUNERS

9982 2.5kw continuous w/roller inductor	$649.99
989D Dlx 1.5kw PEP w/roller inductor	329.99
986 3kw PEP w/roller inductor	309.99
962D 1.5kw PEP/meter/switch/balun/roller ind	259.99
969 HF & 6m 300w roller inductor tuner	189.99
949E 300w/PEP meter/dummy/switch/balun	159.99
948 300w/meter/switch/balun	129.99
941E 300w tuner w/meter, switch, balun	119.99
945E 300w tuner w/meter plus 6m	109.99
20 Mobile bracket for 945E	6.99
901B Versa Tuner 200w ant tuner	89.99
910 80-10m mobile antenna matcher	24.99
1601O 200w random wire tuner	59.99
974 3.5-54MHz balanced line ant tuner .....D	139.99
974B 3.5-54MHz balanced line ant tuner	169.99
974H 1.8-54MHz balanced line ant tuner ...D	149.99
974HB 1.8-54MHz balanced line ant tuner ...	189.99
991 150w automatic antenna tuner .....D	159.99
991B 150w automatic antenna tuner	209.99
993B 300w deluxe automatic antenna tuner	249.99
994 600w automatic antenna tuner .....D	269.99
994B 600w automatic antenna tuner	339.99
1316 12vdc 1.5A adapter; auto tuners	21.99
5124A Alinco interface cable; auto tuners	19.99
5124I Icom interface cable; auto tuners	19.99
5124K Kenwood interface; auto tuners	59.99
5124Y Yaesu interface; auto tuners	59.99
902 80-10m 150w travel tuner	89.99
903 6m antenna tuner	59.99
906 6m antenna tuner w/wattmeter	89.99
914 Auto tuner extender	69.99
921 2m/220 300w PEP tuner/SWR/wattmeter	79.99
922 2m/440 150w tuner/SWR/wattmeter	89.99
924 440 MHz 300w PEP tuner/SWR/wattmeter	79.99
934 300w tuner w/artificial ground	189.99

MEMORY KEYERS

451 Dedicated CW keyboard w/memory	$109.99
452 CW keyboard/keyer w/disp/keyboard	139.99
452X CW keyboard/keyer w/disp, no keyboard	109.99
498 Dlx CW keyboard/keyer w/disp/keyboard D	109.99
490 492 keyer/Bencher paddle combo	199.99
490X 492 keyer for use w/Bencher or 564	109.99
564 Deluxe iambic chrome paddle for 490X	69.99
564B Deluxe iambic black paddle for 490X	69.99
492 192 char menu driven memory keyer	109.99
495 Millennium memory keyer	169.99
5409 9-pin serial port 6' cable for 493 .....D	.69

ELECTRONIC KEYERS

401D Econo keyer	$ 59.99
407D Deluxe electronic keyer	69.99

MFJ - continued

KEYER/PADDLES

422D Keyer/Bencher paddle combination	$179.99
422DX Keyer only	89.99
441 SlimLine econo keyer	69.99
442 SlimLine keyer/Bencher paddle combo ...	169.99
442X SlimLine keyer only .....Δ	49.99
447 SlimLine deluxe keyer	89.99
564 Deluxe iambic chrome paddle	69.99
564B Deluxe iambic black paddle	69.99

COMPUTER INTERFACES

1224 Interface	$109.99
1285 Software for IBM; 1224	19.99
48 1278 upgrade for 1278B	24.99
780 DSP data filter for 1278B .....Δ	49.99
781 DSP filter for any TNC or controller .....Δ	39.99
1214PC Multimode interface for IBM	159.99
1272B TNC to microphone interface	49.99
1272BYH TNC/mic switch; KAM HF	49.99
1272BYV TNC/mic switch; KAM VHF	49.99
1272M TNC/mic RJ-45 switch; MFJ/PK-900 ..	49.99
1272MYV TNC/mic RJ-45 sw; KAM VHF; KPC3	49.99
1284M 3½" IBM starter pack .....D	2.99
1284W MFJCOM for Windows	29.99
1289W Multicom for Windows with cable	59.99
1289WD Multicom for Windows, less cable ...	49.99

SSB/CW FILTERS

751B Super tunable CW audio filter	$ 79.99
752C Dual tunable SSB/CW filter	109.99
784B Deluxe tuneable DSP filter	249.99
5184 Cable pack for 784B	9.99

PHONE PATCH

624D Phone patch w/audio VU meter	$129.99

DUMMY LOADS

250 2kw PEP dummy load w/oil	$ 69.99
250X 2kw PEP dummy load, less oil	49.99
21 1 gal industrial xfmr oil for wet dummy	29.99
260C 300w 0-650 MHz dry dummy load	39.99
260CN 300w 0-650 MHz type N dry dummy ..	49.99
264 1.5kw 0-650 MHz dry dummy load	74.99
264N 1.5kw 0-650 MHz type N dry dummy ...	84.99
267 1.8-60 100w dry dummy load/SWR/wattmeter	159.99

SWR/WATTMETERS

812B 144-220 MHz SWR/FS/wattmeter	$ 39.99
815C 160-10m cross-needle SWR/wattmeter	89.99
816 1.8-30 MHz toroidal SWR/wattmeter	39.99
817C 2m/220/440 cross needle meter	99.99
841 2m 5w in-line HT wattmeter/SWR	49.99
844 Compact 2m/440 SWR/wattmeter	79.99
860 1.8-60 MHz cross-needle meter	49.99
862 2m/220/440 cross-needle meter	59.99
864 1.8-60MHz/2m/440 cross needle meter .	89.99
868 HF 6.5" diagonal PEP SWR/wattmeter ...	139.99
870 1.6-60MHz Grandmaster SWR/wattmeter	129.99
872 1.8-200MHz Grandmaster SWR/wattmeter	94.99
873 125-525MHz Grandmaster SWR/wattmeter	114.99
874 1.8-525MHz Grandmaster SWR/wattmeter .	169.99

SHORTWAVE ACCESSORIES

306 Car radio SWL converter	$ 99.99
956 LW/MW/SW preselector/tuner	59.99
959C SW receiver ant tuner w/preamp	109.99
1020C .3-30 MHz indoor active receive ant ..	89.99
1022 300KHz-200MHz active rcv antenna	59.99
1024 .05-30 MHz outdoor active rcv ant	139.99
1040C Deluxe receiver preselector	109.99
1045C Receiver preselector	79.99

BOOKS

30 Golden Classics book	$ 14.95
32 Packet Made Easy book	12.95
33 Mobile Handbook book	14.95
36 Shortwave Listeners Guide; Apts/Condos .	12.95

MFJ - continued

37 Ham Communications Circuit Files book .	12.95
38 Easy-up Antennas book	19.95
3036 The Packet Radio Operators book	14.95
3101 Fox Hunt Adventure book	9.95
3211 Technician license guide	11.95
3213 General license guide	11.95
3301 Troubleshooting Antenna & Feedlines book	14.95
3302 73 Dipole and Long-Wire Antennas	14.95
3303 73 Vertical, Beam, and Triangle Ants ...	14.95
3305 Antennas & Transmission Lines book ...	19.95
3400 Morse Code: Breaking the Barrier	19.95
3502 Solid State QRP Projects	12.95
3504 FET Principles, Experiments & Projects	16.95
3506 Ferromagnetic-Core Design book	19.95
3507 Practical RF Design Manual	19.95
3509 Ladder Crystal Filters	19.95

CLOCKS

105C 24-hour quartz wall clock	$ 24.99
107B 24-hour digital clock	12.99
108B 24/12-hour dual disp digital clock	21.99
112B Deluxe world map clock	29.99
113 24/12-hr 1.8" LED clock/batt back-up ...	19.99
115 DX'er 24-hour analog world wall clock D	19.99
118 Giant 24/12 hour LCD clock	29.99
123 Eternity solar atomic clock	79.99
125 Calendar 24-hour analog wall clock	34.99

ANTENNAS

343 1⅛" hole mount for 3/8-24 whip	$ 9.99
1402 2m/440 0/3db 16.5" 100w ant only	34.99
1412 2m/440 3/5.5db 40" 200w ant only	49.99
1422 2m/440 3.2/5.7db 41.5" 150w ant only	49.99
1432 2m/440 5/7.6db 62.5" 150w ant only ..	69.99
1436 6m/2m/440 2.15/4.5/7.2db 59" ant only	79.99
333BM 3.5" HiFlux NMO mag mt; not 1436	14.99
333BS 3.5" HiFlux SO-239 magt mt not 1436	14.99
335BM 5" HiFlux NMO mag mt; not 1436 ..	21.99
335BS 5" HiFlux SO-239 mag mt; not 1436	21.99
340 Mirror/luggage pipe clamp mount	34.99
345S Trunk/hatchback lip mt SO-239 mt ..	34.99
1516 2m 15' vertical base antenna	99.99
1621 40-10m 54" portable ant w/tuner	99.99
1622 40-2m apartment antenna	99.99
1624 40-6m mini bugcatcher antenna	79.99
1661 40-2m portable manual screwdriver ant	129.99
1664 80-6m portable manual screwdriver ant	159.99
1710 2m ⅜ wave telescopic BNC antenna	9.99
1712 2m/440 telescopic BNC antenna	14.99
1712S 2m/440 telescopic SMA antenna	14.99
1713 2m/440 SuperFlex Thin Duk HT ant	19.99
1713S 2m/440 SuperFlex SMA Thin Duk ant .	19.99
1714 2m ½ wave telescopic BNC antenna	16.99
1715 2m/440 SuperFlex gain Thin Duk HT ant	24.99
1715S 2m/440 SuperFlex gain SMA Thin Duk	24.99
1716 2m/440 duck for HT	16.99
1716S 2m/440 SMA duck for HT	16.99
1717 2m/2.15db 440 duck for HT	21.99
1717PL 2m/440 foldover flexi-duck, PL-259 .	24.99
1717S 2m/2.15db 440 SMA duck for HT	21.99
1719 2m/440/1.2GHz BNC Midget Duck	19.99
1719S 2m/440/1.2GHz SMA Midget Duck	19.99
1720S 6m/2m/440 SMA Duck	29.99
1721 2m HT UltraLite mag mt antenna	15.99
1722 2m/440 HT UltraLite mag mt BNC ant .	19.99
1724B 2m/440 magnet mt antenna	19.99
1728B 6m ¼ wv/2m ⅝ wv mag ant/PL259/BNC	29.99
1729 2m/440 magnet mt antenna	34.99
1730 2m pocket roll-up vertical antenna	24.99
1734 2m/440 2.6/6.3db glass mt antenna ...	44.99
1736 6m J-Pole travel antenna	29.99
1738 2m 2.6db glass mt antenna	34.99
94 Remount kit for 1734/1738	4.99

MFJ - continued

		AES Price
1740	2m ¼ wave ground plane ant	24.99
1750	2m ⅝ wave ground plane ant	29.99
1752	220 ⅝ wave ground plane ant	29.99
1754	2m/440 ground plane antenna	34.99
1762	6m 6db 3 el 6' boom beam	89.99
1763	2m 3el portable beam	49.99
1764	2 & 6m dual ⅝ super gain base ant	54.99
1768	2m/440 4/7 el beam antenna	79.99
1778	G5RV 160-10m 102' ant (needs tuner)	39.99
1786	Super Hi-Q 10-30 MHz loop/dlx control	399.99
1788	Super Hi-Q 40-15m loop/dlx controller	449.99
1796	40/20/15/10/6/2m 10' vertical ant	209.99
1798	80/40/30/20/17/15/12/10/6/2m 20' vert	279.99
1800	2.4GHz wi-fi 16 element 15db beam	29.99
5606SR	6' N male - rp-SMA female cbl for 1800	24.99
1899T	80-6m telescopic antenna; FT-817	69.99
1910	33' telescoping fiberglass mast	79.99
1954	3/8-24 10' telescopic whip	22.99
1956	3/8-24 12' telescopic whip	29.99

CABLES

5020	MFJ TNC - Yae FT50R/compat	$ 17.99
5020YV	KAM VHF/KPC3 - Yae FT50R/compat	17.99
5022	MFJ TNC - Alinco/Standard HT cable .Δ	2.99
5022YV	KAM VHF/KPC3 - Ali/Sta HT cable	17.99
5024	MFJ TNC - Ico/Yae/Ali/RS HT cable	17.99
5024B	PK/PacComm/compat - Ico/Yae/RS	17.99
5024YV	KAM VHF/KPC3 - Ico/Yae/Ali/RS HT	17.99
5026	MFJ TNC - Kenwood HT cable	17.99
5026YV	KAM VHF/KPC3 - Kenwood HT cable	17.99
5060	MFJ TNC - Ken/Yae acc 6-pin mini DIN	21.99
5060YQ	KPC9612 - Ken/Yae acc 6pin mini DIN	21.99
5060YV	KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN	21.99
5063	MFJ TNC - Icom HF acc 8-pin DIN	21.99
5063YH	KAM DIN HF - Icom HF acc 8-pin DIN	21.99
5064	MFJ TNC - Icom VHF acc 8-pin DIN	21.99
5064YQ	KPC9612 - Icom VHF 8-pin DIN .....Δ	.69
5065	MFJ TNC - Ico IC-706 acc 13-pin DIN	21.99
5065YH	KAM HF - Ico IC-706 acc 13-pin DIN	21.99
5065YV	KAM VHF - Ico IC706 acc 13-pin DIN	21.99
5066	MFJ TNC - Kenwood HF acc 13-pin DIN	21.99
5066YH	KAM HF - Ken HF acc 13-pin DIN	21.99
5080	MFJ TNC - Yaesu 8-pin cable	17.99
5080M	MFJ TNC - Yaesu 8-pin modular	17.99
5080MYV	KAM VHF/KPC3 - Yae 2500M/7400H	17.99
5080YH	KAM HF port - Yaesu 8-pin cable	17.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable	17.99
5082	Open end - 8-pin mic cable	11.99
5084	MFJ TNC - Icom 8-pin cable	17.99
5084M	MFJ TNC - Icom 8-pin modular	17.99
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod	17.99
5084YH	KAM HF port - Icom 8-pin cable	17.99
5084YV	KAM VHF/KPC3 - Icom 8-pin cable	17.99
5086	MFJ TNC - Kenwood/Alinco 8-pin cable	17.99
5086M	MFJ TNC - Kenwood 8-pin modular	17.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod	17.99
5086YH	KAM HF port - Ken/Ali 8-pin cable	17.99
5086YV	KAM VHF/KPC3 - Ken/Ali 8-pin cable	17.99
5088M	MFJ TNC - Radio Shack 8-pin modular	17.99
5205	5-pin DIN open end cable	6.99
5208	Open end - Ico HF/VHF acc 8-pin DIN	11.99
5213	Open end - Kenwood acc 13-pin DIN	11.99
5220R/5220	Open end - Yae FT50R/compat	11.99
5222	Open end - Ali split HT cable	11.99
5224	Open end - Ico/Yae/Ali/RS HT cable	11.99
5268	Open end - modular phone plug cable	11.99
5412	IBM printer cable	11.99
5413	RS-232 6' cable DB-25M-25F .....Δ	.49
5414	RS-232 6' cable DB-25M-9F	9.99
5429	Cable/adapt; RS-232 to USB w/drivers	24.99
5803/10	3' coax jumper cable	5.99

MFJ - continued

RADIOS/TRANSCEIVERS

		AES Price
8100K	Shortwave regenerative Rcvr kit	$ 69.99
8100W	Shortwave regenerative Rcvr wired	99.99
8621	5w 2m data radio w/145.01 MHz	159.99
8621X2	5w APRS ready 2m data radio/144.39	169.99
4110	Portable AC power supply	59.99
5100	Data radio cable - MFJ/TAPR	17.99
5100YH	Data radio cable - KPC-9612 ....Δ	.69
5100YV	Data radio cable - KAM/KPC-3	17.99
5106	Open end - 6pin mini Ken/Yae cable	6.99
8708	4ch ham micro ATV transmitter	159.99
9015	5w 15m CW Xcvr	189.99
9020	5w 20m CW Xcvr	189.99
9030	5w 30m CW Xcvr	189.99
9040	5w 40m CW Xcvr	189.99
27	Handle for CW station	6.99
412	Plug-in Curtis keyer	49.99
726	Plug-in audio filter	49.99
971	200w portable ant tuner w/meter	109.99
1772	Portable 20m dipole	39.99
1774	Portable 40m dipole	39.99
4110	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99
9402X	7w PEP 2m SSB Xcvr w/mic	289.99
9406X	10w PEP 6m SSB Xcvr w/mic	269.99
9410X	20w PEP 10m SSB Xcvr w/mic	259.99
9420X	20w PEP 20m SSB Xcvr w/mic	249.99
9440X	12w PEP 40m SSB Xcvr w/mic	249.99
9475X	12w PEP 75m SSB Xcvr w/mic	249.99
415B	SSB Xcvr CW adapter; 9420X/9440X	49.99
416	CW adapter for 9402X/9406X/9410X	49.99
971	200w HF portable ant tuner w/meter	109.99
1770A	10m dipole for 9410X	39.99
1772	Portable 20m dipole	39.99
1774	Portable 40m dipole	39.99
4110	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99

ACCESSORIES

1305	5v 300ma adapter .....D	$ .69
1306	6v 300ma adapter .....Δ	.99
1312	12vdc 300ma adapter, 2.5mm plug ..D	12.99
1312D	12vdc 500ma adapter, 2.1mm plug	15.99
1316	12vdc 1.5A adapter	21.99
15	HamGear belt loop radio holder	14.99
16C01	Glazed ceramic end insulator	.99
18	HamGear chest harness/cargo pocket	29.99
92AA01	1300ma AA NiMH cell .....each	2.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
201	1.5-250 MHz dip meter	129.99
202B	RF noise bridge	69.99
207	160-10m SWR analyzer	99.99
208	2m SWR analyzer	99.99
209	1.8-170 MHz SWR analyzer	139.99
212	MatchMaker tune up device	89.99
219B	SWR analyzer, 440 MHz/N/SO-239 adapt	119.99
224	2m FM signal analyzer	159.99
249B	1.8-170 MHz SWR analy/LCD counter	239.99
259B	1.8-170 MHz SWR analy/RF res meter	259.99
269	1.8-170+440 MHz SWR analy/RF res mtr	339.99
29C	Carrying case w/window; 209/249B/259B	24.99
39C	Carrying case w/window; 269	24.99
66	1.8-30/30-170 dip coils; 209/249B/259B	24.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
98	Package of 39C/66/1312D for 269	60.99
98B	Pack of 92AA10/39C/66/1312D for 269	88.99
99	Pack of 29C/66/1312D; 209/249B/259B	60.99
99B	Pack; 92AA10/29C/66/1312D; 209/249B/259B	88.99
99C	Pack - 92AA10/1312D; 209/249B/259B/269	40.99
731	RFI filter for SWR analyzer	89.99
1312D	12vdc 500ma ps for SWR analyzers	15.99
270	Guardian Angel 400w PEP lightning protect	29.99

MFJ - continued

		AES Price
97	Gas tube plug for 270	9.99
281	ClearTone communications speaker	12.99
288I	Headset/mic; Icom/ADI/Sta/RS/older Yae	24.99
288K	Headset/mic for Kenwood	24.99
288Y	Headset/mic; Ico Q7/Yae FT10/50/VX1	24.99
292I	Earph/mic; Ico/older Yae/compatibles	17.99
292Y	Earphone/mic; Ico Q7/Yae FT10/50/VX1	17.99
293I	Rubber flex earloop earbud/mic; Icom	24.99
293K	Rubber flex earloop earbud/mic; Kenwood	24.99
293Y	Rubber flex earloop earbud/mic; Yaesu	24.99
295I	Mini spkr/mic; Icom & compatible HT	16.99
295K	Mini spkr/mic; Kenwood & compatible HT	16.99
295Y	Mini spkr/mic; Ico Q7/Yae FT10/50/VX1	16.99
297	Desk mic with flexible boom	69.99
5082	Open end - 8-pin mic cable for 297	11.99
5268	Open end - mod phone plug cbl; 297	11.99
5397I	Cable/8-pin for 297; Icom HF	17.99
5397K	Cable/8-pin for 297; Kenwood HF	17.99
5397Y	Cable/8-pin for 297; Yaesu HF	17.99
5397MX	Cable/modular for 297; Icom/Kenwood	17.99
5397MY	Cable/modular for 297; Yaesu	17.99
310	BNC HT antenna window mount clip	19.99
310S	SMA HT antenna window mount clip	19.99
341M	17' antenna cable; NMO	19.99
341S	17' antenna cable; SO-239	19.99
382	Deluxe amplified communications spkr	39.99
388	Cyber Ear 12db ear amplifier	34.99
392B	Deluxe communication headphones	24.99
414	Professional Morse Tutor w/LCD	199.99
417	Code Tutor with QSO	69.99
418	Code Tutor with LCD display	89.99
434B	Deluxe Voice Memory Keyer	179.99
73	Remote control head w/cbl; 434/434B	34.99
461	Pocket size Morse code reader	89.99
5161	DB-9 PC serial port cable	16.99
5162	Cable for radio external speaker	7.99
462B	RTTY/ASCII/CW/AMTOR Rcvr multi-reader	189.99
5162	Cable for radio external speaker	7.99
464	CW reader w/built-in keyer	179.99
550	Hand key	14.99
554	Deluxe CW practice oscillator	89.99
557	Code oscillator w/key	39.99
616	Speech intelligibility enhancer	179.99
1316	12vdc 1.5A adapter	21.99
281	ClearTone speaker (requires 2)	12.99
392B	Deluxe communication headphones	24.99
633	Rapid charger; NiMH/nicad AA/AAA/9V	29.99
662	Simplex pocket repeater	79.99
701	Toroid RFI filters .....pack of 4	16.99
704	1kw low-pass filter	49.99
762	81db 170MHz BNC attenuator	79.99
801	Super compact field strength meter	24.99
802	Bipolar field strength meter	44.99
802R	Field strength remote meter .....Δ	9.99
802X	Field strength/remote meter combo	69.99
805	RFI current detector meter	89.99
850B	AC line voltage monitor	24.99
852	AC power line noise finder meter	109.99
854	HF RF current meter	109.99
886	1MHz - 3GHz pocket frequency counter	119.99
888	Deluxe 10Hz - 3GHz frequency counter	189.99
890	DX beacon monitor	109.99
912	W9INN remote balun	59.99
916B	2m/440 duplexer	34.99
931	Artificial ground unit	99.99
1025	Noise canceling antenna	159.99
1026	Deluxe noise canceling unit w/antenna	179.99
1046	1.6-33MHz receiver passive preselector	109.99
1048	1.6-33MHz Xcvr passive preselector	129.99
1112	Multiple DC outlet	39.99
1116	Dlx multiple DC outlet	54.99
1117	High current multiple DC outlet	59.99

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

MFJ - continued

	AES Price
1118 Dlx high current multiple DC outlet	79.99
1213 Interface for JVFAX/HamComm .....Δ	24.99
1263 2mic in/2rig out switch/1 round cbl/1 modlr cbl	109.99
5397MX Modular mic cable for 1263	17.99
1273B Basic soundcard interface/soft; 8P-R	59.99
1273BM Basic soundcard interface/soft; 8P-M	59.99
1275 Soundcard/rig interface/software; 8P-R	109.99
1275M Soundcard/rig interface/software; 8P-M	109.99
1279 Super soundcard interface/soft; 8P-R ..	139.99
1279M Super soundcard interface/soft; 8P-M	139.99
1700C 6-pos combo ant/xmtr switch/protect	99.99
1701 6-position coax switch	69.99
1702C 2-pos coax switch/lightning protect ..	24.99
1702CN 2-pos 1.1GHz N switch/lightning protect	34.99
1703 2-rig/2-antenna RF safety switch	24.99
1704 4-pos 500 MHz switch/lightning protect	69.99
1704N 4-position type N switch	79.99
1925 Controller; Yaesu ATAS-series/other rigs	69.99
1925I2 Controller; Yae ATAS-series/Ico IC-706	69.99
4035MV Dlx 30A adjustable ps, 35A surge ...	149.99
4103 Switching power supply; Yaesu FT817/etc	39.99
4125MV MightyLite 22A 3.5 lb switch ps, 25A surge	109.99
4225MV MightyLite 22A switch ps, 25A surge/meters	149.99
4245MV MightyLite 40A switch ps, 45A surge/meters	199.99
4712 160-2m 2-pos remote antenna switch .	79.99
5396K Adapter; 394/396 with Ken Xcvr .....D	.29

MAGELLAN (MAG)

SporTrak GPS receiver w/1MB memory .....D	$ 99.99
SporTrak Color Handheld color GPS/9MB ...D	269.99
980654-01 MapSend DirectRoute; Pro/Color D	69.99
980654-03 MapSend DirectRoute; Gold/Plat/Col D	69.99

MAHA (MAH)

9V 8.4v 170mah 9v size NiMH battery .....D	$ 6.99
MH-96V200 9.6v 200mah 9v size NiMH battery	12.99
AAA-T 1.2v 650mah AAA size NiMH batt cell ea	2.99
AA-FB 1.2v 1400mah AA NiMH batt w/tabs D,ea	1.99
4-AA-230 4pk 1.2v 2300mah AA NiMH cells . D	9.99
4-AA-250-BH 4pk 1.2v 2500mah AA NiMH cells D	12.99
MH-R-AA4 4pack 1.2v 2700mah AA NiMH cells	14.99
MH-96V200 9.64v 200mah 9v size NiMH batt	12.99
MHS-DC-124 Cig adapter; MH-C124S/C204F Δ	.29
MH-C801D 1-8 AA/AAA NiMH/NiCD quick charger	84.99
MH-K5000 Quick cgr/conditioner w/4 AA2500	39.99
MH-BP-7 13.2v 1000mah Icom nickel hydride	69.99
MH-BP-8 8.4v 1200mah Icom nickel hydride	59.99
MH-BP-8H 8.4v 1800mah Icom nickel hyd ...Δ	49.99
MH-BP-83 7.2v 1300mah Icom nickel hydride	49.99
MH-BP-173 9.6v 650mah Icom nickel hydride	69.99
MH-BP-180 7.2v 1000mah Icom nickel hydride	49.99
MH-BP-196M 9.6v 1350mah Icom nick hyd Δ	19.99
MH-BP-199 6v 700mah Icom nick hyd/clip ..Δ	29.99
MH-BP-200 9.6v 680mah Icom nick hydride/clip	59.99
MH-CNB-152 12v 1000mah Sta nickl hydride Δ	29.99
MH-FNB-12 12v 1000mah Yaesu nickel hydride	59.99
MH-FNB-17 7.2v 1000mah Yaesu nickel hydride	49.99
MH-FNB-27 12v 900mah Yaesu nickel hydride	59.99
MH-FNB-38 9.6v 650mah Yaesu nickel hydride	59.99
MH-FNB-41 9.6v 1000mah Yae nick hyd/spg clip	55.99
MH-FNB-V47 7.2v 1800mah Yae nick hyd/spg clip	69.99
MH-FNB-V57 7.2v 1500mah Yae nickel hydride	49.99
MH-FNB-58LI 1200mah li-polymer; Yae VX5R	59.99
MH-FNB-72 9.6v 1700mah Yae nickel hydride	59.99
MH-PB-8 12v 1300mah Kenwood nickel hydride	62.99
MH-PB-17 12v 1300mah Kenwood nickel hydride	69.99
MH-PB-18 7.2v 1300mah Ken nick hyd; wall cgr only	49.99
MH-PB-32 6v 1000mah Kenwood nickel hydride	47.99
MH-PB-34 9.6v 1000mah Kenwood nickel hydride	57.99
MH-PB-39 9.6v 1050 mah Ken nickel hyd/clip .	59.99
MH-PB-39H 6v 1800mah Ken nickel hyd/clip ..	59.99

Maha - continued

	AES Price
MH-PB-42LI 1800mah li-polymer; Ken THF6A	69.99
MHS-CW4 Clip-leads; external charging;MHC777 Δ	1.99
MH-C777 Plus II Univ cgr/analy; lith/nicd/nimh	74.99
MH-C888 Univ drop-in rapid cgr/cond; nicad/nimh	59.99
MHS-C800U External charger pin shell ...†	.49
MHS-C801 Cup; T2/W32/TH22/79/FT10/50	7.99
MHS-C802 Cup; IC02AT/TH78/FT470/530 Δ	.99
MHS-C803 Cup; Kenwood TH-D7A/G71A	7.99
MHS-C804 Cup; Icom IC-T8A/T81A .....Δ	.99
MHS-C806 Cup; Ali 195/580/F1/G5/V5/etc	7.99
MHS-DC-777 Cig lighter cord	5.99
MH-101-I1 Cgr;Ico157/160/174/131/2/Mah 132B/G D	.99
MH-101-Y1 Cgr;Yae 10/11/12/17/25/27/Mah 12/27 D	.99
MH-800K 500mw spkr/mic w/clip; Kenwood .	19.99
MH-800S 500mw spkr/mic/clip; Ali/Ico/Sta/Yae	19.99
MH-800Y 500mw spkr/mic; Yae FT50/VX1R ..	24.99
MHS-K1 Ken 25/26/75/77 adapt; A301/302 ....D	.19
MHS-K2 Ken TH22/79 adapter; A301/302 ...D	.19
MHS-Y3 Yae FT11/41/51 adapt; A301/302 D	.19

MALDOL (MAL)

AH-14 20m telescoping ant w/BNC; FT-817...	$ 45.99
AH-28 10m telescoping ant w/BNC; FT-817...	45.99
AH-C7 40m loading coil only w/BNC; FT-817	33.99
AH-C14 20m loading coil only w/BNC; FT-817	33.99
AH-C21 15m loading coil only w/BNC; FT-817	33.99
AH-C28 10m loading coil only w/BNC; FT-817	33.99
AH-R Telescoping whip for AH-C7/14/21/28	17.99
AH-510R 6/2m/440 37" BNC tele whip; FT-817/HT	59.99
AH-510R/SMA 6/2m/440 37" SMA tele whip .D	34.99
AH-W100RX 70-900MHz 40" tele BNC rcv ant	32.99
AS-20 2m/440 8.5" superflex SMA antenna...	26.99
AS-25 2m/440 1" SMA antenna	19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant	29.99
AX-50 2m/440 0/5db 21" mobile antenna	49.99
AX-75 2m/440 3.2/5.7db 30" mobile ant	59.99
AX-95 2m/440 3.3/5.8db 38" mobile ant	66.99
EM-B80 Small trunk/hatch/van door lip mt ..	25.99
EX-104B 2m/440 black 0/2.15db 15" mob ...	44.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO	44.99
EX-107RB 2m/440 black 2.6/4.9db 29" mob	56.99
EX-107RBNMO 2m/440 blk 2.6/4.9db 29" NMO	56.99
EX-510B 6m/2m/440 blk 0/2.15/5.5db 37" mob	66.99
EX-510BNMO 6m/2m/440 blk 0/2.15/5.5db 37" NMO	66.99
FVS-50 Dlx 2-step 16' 9" cable w/UHF connects D	29.99
HMC-6S 20/15/10/6/2m/440 66" mobile ant	159.99
HMC-7C 40m loading coil for HMC-6S	34.99
HMC-35C 80/75m loading coil for HMC-6S	39.99
HVU-8 80/40/20/15/10/6/2m 8.6' vert w/radials	319.99
MH-209 2m/440 3" BNC duck	23.99
MH-209SMA 2m/440 3" SMA duck	23.99
MH-510 6m/2m/440 0/0/3.2db 20.75" SMA duck	37.99
MH-511 6m/2m/440 4" SMA duck	33.99
MH-610 2m/220/440 0/1.8/3.2db 14" SMA duck	49.99
MK-30H Motorized tnk lip/hatch/van door mt	109.99
MK-RR Roof rack bracket for MK-30H	19.99
PRM-T Large trunk/hatch/van door lip mt	33.99
SHG-140B 2m 4.1db 56" mobile antenna ...D	29.99
SHG-140BNMO 2m 4.1db 56" NMO mob ant D	29.99

MEADE (MEA)

20211 NGC-70SP 70mm refractor telescope Δ	$149.99
07139 1.25" 18mm WA lens .....Δ	29.99
07173-02 1.25" 15mm super Plossl lens Δ	34.99
07273 #126 1.25" 2x short-focus Barlow lens Δ	34.99

MEADOW RIDGE (CRO)

SOLID COPPERWELD ANTENNA WIRE

AN-122 100 feet No. 12	$ 39.99
AN-123 150 feet No. 12	49.99
AN-124 250 feet No. 12	79.99
AN-126 500 feet No. 12	139.99

Meadow - continued

	AES Price
AN-128 1000 feet No. 12	239.99
AN-142 100 feet No. 14	29.99
AN-143 150 feet No. 14	39.99
AN-144 250 feet No. 14	49.99
AN-146 500 feet No. 14	89.99
AN-148 1000 feet No. 14	169.99
AN-181 250 feet No. 18	24.99
AN-182 500 feet No. 18	39.99

MIDLAND (MID)

18-258 On glass mount mobile CB antenna .	$ 19.99
21-406 Deluxe mobile speaker w/3.5mm plug	22.99
74-250C SAME handheld WX/hazard alert radio	49.99
WR-300 AM/FM/SAME WX/hazard alert radio/ps	59.99
NT-1 Nautico 1 5w VHF marine handheld ..D	59.99
AVP-5 Accs;bat/cgr/dcadpt/acadapt/headset/mt D	29.99
LXT-210VP 22ch 2w GMRS/FRS hh/batts D,pair	44.99
GXT-500VP4 22ch 5w GMRS/FRS hh/batts D,pair	89.99
GXT-650VP4 22ch 5w GMRS/FRS hh/batts .pair	89.99

Miracle Antenna (MIA)

Ducker IL In-line HF rcv tuner; HH//QRP xmit	$129.99
Miracle Whip 3.5-450MHz 57" QRP ant/tuner	129.99

MIRAGE (MIR)

A-1015G 50-52 FM/SSB 10/150w amp/preamp	$359.99
B-34 2m FM 2/35w amplifier; no mob bkt	89.99
B-34G 2m FM/SSB 2/35w amp/preamp	109.99
B-310G 2m FM/SSB 4/100w amp/preamp	209.99
B-320G 2m FM/SSB 50/200w amp/preamp ..	459.99
B-1018G 2m FM/SSB 10/160w amp/preamp	369.99
B-2518G 2m FM/SSB 25/160w amp/preamp	299.99
B-2530G 2m FM/SSB 25/300w amp/preamp	699.99
B-5018G 2m FM/SSB 50/160w amp/preamp	299.99
B-5030G 2m FM/SSB 50/300w amp/preamp ..	669.99
BD-35 2m/440 4/45//4/35w HT amp	159.99
B-24G 5/50w 2m HT dock boost amp/pre	109.99
MI-1 Ico 2G/02/2/23 adapter; B24G/BD25 D	.99
MI-2 Ico 2SAT/W2 adapter; B24G/BD25 ..Δ	1.99
MI-3 Ico W21AT/X21AT adapt; B24G/BD25	9.99
MK-1 Ken 25/26/75/77 adapt; B24G/BD25 Δ	.99
MK-2 Ken 22/79 adapter; B24G/BD25	9.99
MY-1 Yae 23/411E/470 adapt; B24G/BD25 Δ	.99
MY-2 Yae 26/415/530 adapt; B24G/BD25 Δ	.99
C-22G 220 FM/SSB 2/20w amp/preamp	159.99
C-211G 220 FM/SSB 2/110w amp/preamp	329.99
C-1012G 220 FM/SSB 10/120w amp/preamp	329.99
C-1022G 220 FM/SSB 10/220w amp/preamp	699.99
C-2512G 220 FM/SSB 25/120w amp/preamp	309.99
D-15N 430 FM/SSB/ATV 2/15w type N amp ...	189.99
D-26N 440 FM/SSB 2/60w type N amplifier ..	279.99
D-1010N 440 FM/SSB 10/100w type N amp .	379.99
D-3010N 440 FM/SSB 30/100w type N amp .	349.99
D-1010-ATVN 430 ATV 10/100w type N amp .	399.99
RC-1* Remote control head w/18' cable	49.99
*Not for B-23/C-22/D-26	
RC-2 Rem ctl head/cable; B-XX18G	49.99

The following Repeater Amplifers are Special Order. Specify SO-239 or type N connectors.

A-1015NR 6m FM 2/80w type N amplifier	$549.99
A-1015R 6m FM 2/80w SO-239 amplifier	529.99
C-211NR 220 FM .5/80w type N amplifier	619.99
C-211R 220 FM .5/80w SO-239 amplifier	599.99
C-1012NR 220 FM 5/90w type N amplifier ...	619.99
C-1012R 220 FM 5/90w SO-239 amplifier	599.99
C-2512NR 220 FM 15/90w type N amplifier .	589.99
C-2512R 220 FM 15/90w SO-239 amplifier ..	569.99
D-1010NR 440 FM 4/80w type N amplifier ...	629.99
D-1010-ATVN-R 430 ATV 4/80w type N amp .	629.99
D-3010NR 440 FM 12/80w type N amplifier .	599.99

Mirage - continued — AES Price

PREAMPS

Item	Description	AES Price
KP-1/10M	10m in shack preamp ... Δ	$ 79.99
KP-1/6M	6m in shack preamp ...	139.99
KP-1/2M	2m in shack preamp ...	139.99
KP-1/440	440 in shack preamp ...	139.99
KP-2/10M	10m mast mount preamp ... Δ	79.99
KP-2/6M	6m mast mount preamp ...	184.99
KP-2/2M	2m mast mount preamp ...	184.99
KP-2/440	440 mast mount preamp ...	184.99

NCG (NCG)

Item	Description	AES Price
Power Pocket	12v 2AH lead acid belt batt/cgr	$ 66.99

NCS (NCS)

Item	Description	AES Price
NCS-3230	Multi-receiver receive console ...	$349.99
NCS-1514	Wall power supply; NCS-3230 ...	24.99
NCS-P2PH35-A	Multi-rx/spkr out set 6 cables	26.99
NCS-MRx2MS-A	3240 & 3230 interface cbl kit	49.99
NCS-3240	Multi-switcher audio device ...	299.99
NCS-1512	Wall power supply; NCS-3240 ...	12.99
NCS-LoZNC	Unterminated interface cable .	17.99
NCS-LoZ8PI-I	Icom 8-pin interface cable .	24.99
NCS-LoZRJ45-I	Icom RJ-45 interface cable	23.99
NCS-LoZ8PI-K	Kenwood 8-pin interface cable	24.99
NCS-LoZRJ45-K	Kenwood RJ-45 interface cbl	23.99
NCS-LoZ8PI-Y	Yaesu 8-pin interface cable	24.99
NCS-LoZRJ12-Y	Yaesu RJ-12 interface cable	23.99
NCS-LoZRJ45-Y	Yaesu RJ-45 interface cable	23.99

Night Owl Optics (NOO)

Item	Description	AES Price
NODS-5	5x48 night vision scope w/illuminartor Δ	$169.99
NOCA-42	Camera adapter ... Δ	24.99
NOXG-2	3x G2 night vision scope w/illuminator Δ	799.99
NOCA-42	Camera adapter ... Δ	24.99
NONW24-BPHT	2.4x night vision/illuminator Δ	99.99

NORCOMM (NOR)

Item	Description	AES Price
NC-101	Tunable CTCSS encoder ...	$ 21.99
NC-104	Programmable CTCSS encoder ...	26.99
NC-106	Prog CTCSS encoder/decoder ...	62.99
NC-401	Sub-miniature DTMF decoder ...	62.99

Oregon Scientific (ORE)

Item	Description	AES Price
PE-319	Pedometer with personal security ..D	$ 14.99
WMR-112A	Wireless weather station ...D	129.99

OUTBACKER (OUT)

Item	Description	AES Price
OB-8	75-10m 300w PEP 6' 8-band mobile ant	$319.99
OB-8HP	75-10m 500w PEP 6' 8-band mob ant	329.99
OB-S8	75-10m 300w PEP split ant/storage bag	329.99
OB-8TRI	75-10m 300w PEP 3pc 6' port ant/bag	339.99
Joey	80-2m 20w antenna w/counterpoise ...	299.99
MicroMount	Tripod system for Joey...	49.99
OB-M	75/40/20/17/10m/HF marine 300w PEP 6'	449.99
Perth	75-10m 150w PEP 7.5' mobile ant ...	329.99
Perth Plus	75-10m+6m/2m 150w PEP 6' mob ant	329.99
Stealth Plus	75-10m+6/2m 100w PEP 4' ant	319.99
Outreach	160-10m 300w PEP 12' antenna ...	419.99
Outreach 500	80-6m 600w PEP 12' antenna	449.99
Outpost	Base tripod mtg system for mobile ant	199.99
OB-SB	3/8-24 spring and 1/2" hole base ...	129.99
Diamond **K-400-3/8C**	3/8-24 trunk mt, 6' coax	69.99
Diamond **C-110**	10' ext cable; K-400-3/8C	14.99

Palomar Engineers (PAL)

Item	Description	AES Price
PT-340	Tuner-Tuner (use with ant tuner) ...	$ 99.99
RFI-4	RF interference kit ...	25.99
VLF-A	VLF converter; 10-500 KHz to 80m ...	99.99
VLF-S	VLF conv; 10-500 KHz to 4-4.5 MHz ...	99.99

PALSTAR (PLS)

Item	Description	AES Price
AT-1KM	600w T-match differential tuner/crossneedle mtr	$379.99
AT-4K	2.5kw T-match edgewound roller ind tuner	895.99

Palstar - continued — AES Price

Item	Description	AES Price
AT-5K	3.5kw T-match ceramic roller ind tuner	1195.99
AT-1500CV	750w T-match ceramic roller ind tuner	459.99
AT-1500DT	750w differential antenna tuner .	479.99
AT-AUTO	1500w automatic antenna tuner ...	1195.99
BT-1500A	750w dual edgewound roller ind tuner	695.99
DL-2K	2000w 30MHz dummy load w/fan ...	199.99
ZM-30	1-30MHz antenna analyzer ...	369.99

PAR (PAR)

Item	Description	AES Price
SK-144	Stacking harness for OA-144 ... Δ	$ 9.99
SK-432	Type N stacking harness; OA-432 ... Δ	19.99
UHFDN450	440 dual band notch filter ... Δ	29.99
VHFDN152HT	2m dual band HT notch filter Δ	29.99

PENETROX (PEN)

Item	Description	AES Price
Penetrox A	4 oz tube for antennas ...	$ 14.99

POLYPHASER (PLY)

LIGHTNING PROTECTION

Item	Description	AES Price
IS-50NX-C2	125-1000 375/125/50w N flange	$ 62.99
IS-50UX-C0	1.5-400 2kw/375/125w flange mt	62.99
IS-50UX-C1	50-700MHz 375/125w flange mt	62.99
IS-B50LN-C2	125-1000 375/125/50w N bulkhead	65.99
IS-B50LU-C0	1.5-400 2kw/375/125w bulkhead	65.99
IS-B50LU-C1	50-700 375/125w bulkhead mt	65.99
FB Adapter	Flange to bulkhead mt adapter Δ	1.99
PLDO-120US15A	120v 15A power protector .	169.99
PLDO-120US20A	120v 20A power protector .	199.99
IS-RCT	8-wire rotor control protector ...	99.99
J-1	1/2" to 1 1/3" bronze transition clamp ...	11.99
J-2	1 1/2" to 2 1/4" bronze transition clamp Δ	6.99
IS-SPTL	Single phone line protector ...D	69.99
IX-1TW	Single phone line protector ...	89.99
CS112-25	25' 1 1/2" copper strap ...	26.99
CS112-50	50' 1 1/2" copper strap ...	52.99
CS112-100	100' 1 1/2" copper strap ...	101.99
CS3-25	25' 3" copper strap ...	57.99
CS3-50	50' 3" copper strap ...	101.99
CU-SPGP	Copper single point ground panel .	88.99
TK-2	1 1/2" strap to Rohn twr corrosion free clamp	8.99
TK-3	1 1/2" strap-2 1/4" to 3 3/4" mast corr free clamp Δ	6.99
1C-112S	#6-#1 wire to 1 1/2" strap clamp bond	14.99
58R-112S	1 1/2" strap to 5/8" gnd rod clamp bond	15.99
UNI-KIT 2TC	Gnd kit; galv twr leg to copper Δ	19.99
UNI-KIT 2CC	Ground kit; coax to copper ...	45.99
CCK	Copper cleaning kit; 4 oz can, brush ...	28.99
LPGS	Lightning Protection/Grounding book ...	20.00

PREMIER (PRE)

Item	Description	AES Price
AL-800	2m/440 34" BNC rubber duck ant ...	$ 29.99
RD-2	2m/440 2" BNC duck ...	14.99
RD-2SMA	2m/440 2" SMA duck ...	15.99
RD-8	2m/440/900 6.5" BNC duck ...	14.99
RD-9	2m/440/900 7" BNC duck ...	18.99
RD-9SMA	2m/440/900 7" SMA duck ...D	20.99
RD-78	2m/440/900 15" BNC whip ...	19.99
RD-98	2m/440 17" BNC whip ...	24.99
SPM-100	Spkr/mic; ADI/Alinco/Icom/Yaesu ...	31.99
SPM-101	Spkr/mic for Kenwood ...	31.99
SPM-102	Spkr/mic; Yaesu FT-50R/VX-1R/5R	31.99
SPM-400A	Boom/mic; ADI/Alinco/Icom/Yaesu	39.99
SPM-402A	Boom mic; Yae FT-50R/VX-1R/5R	39.99

PRO AM by VALOR (VAL)

ASTATIC MOUNTS

Item	Description	AES Price
AST-MMK	Heavy duty 3/8-24 magnet mt kit .	$ 29.99
AST-NMO	NMO mounting adapter ...	6.99
AST-SO239	SO-239 mounting adapter ...	6.99
AST-TMK	Universal 3/8-24 trunk mount kit ...	29.99
AST-NMO	NMO mounting adapter ...	6.99
AST-SO239	SO-239 mounting adapter ...	6.99

Pro Am - continued — AES Price

VHF/UHF ANTENNAS ONLY (No Mounts)

Item	Description	AES Price
MO144-440	2m/440 antenna only ...	$ 21.99
PAQA	136-515 MHz 1/4 wave antenna only ...	10.99
PHB-144	2m 5/8 wave 3 db antenna only ...	29.99

MOUNTS ONLY FOR ABOVE ANTENNAS

Item	Description	AES Price
PAMB	Black low profile NMO mag mt w/coax	$ 24.99
PAN38	3/8-24 antenna to NMO mt adapter ...	14.99
PAS	3/4" NMO mount w/coax ...	19.99
PASMO	3/4" NMO mt only (no coax) ...	7.99
PAT-2	No hole NMO trunk mount w/coax ...D	14.99
PAT-2B	Black no hole NMO trunk mt w/coax .	19.99

OTHER VHF/UHF ANTENNAS & MOUNTS

Item	Description	AES Price
100ADN	SO-239 horizontal mirror mt ...	$ 10.99
101ADN	HD alum mirror mt w/SO-239 ...	10.99
105AD	Hvy duty 3/8" mount assembly ...D	6.99
105ADT	Heavy duty 3/8" mount assembly ...	6.99
105HDT	Heavy duty mount assembly ...	3.99
120	Sawtooth hump mt for mobile radios ...	9.99
301	4" low profile 3/8-24 magnet mt w/coax ..	16.99
401	5" low profile 3/8-24 magnet mt w/coax ..	19.99
DAK-AD	Mt for 2 vert ants or horizontal dipole	13.99
GM-144	2m 2.5db on glass antenna ...	39.99
GM-270	2m/440 2.6/6.3db on glass antenna	59.99
TGMKD	On glass replacement mtg kit ...	8.99
MM-3401	Maxi-mag mt 3/8-24/NMO kit (3-5" mags)	59.99
SS-100MOT	3-way NMO mirror mt w/coax ...	23.99
CX-144	2m 5/8 wave 3db 3/8-24 whip ...	19.99
MM-270B	2m/440 micro mag mt ant w/BNC	19.99
PM-144-440BN	2m/440 BNC mag mt ant ...	29.99
PMM-3B	Micro mag mt monitor ant w/BNC ..	19.99
TGS	112-1200MHz on-glass scanner ant w/BNC	34.99
VAA-002B	144-450 black 1/4 wv mag mt ant .	23.99
VAA-002BBN	144-450 black 1/4 wv BNC mag ant	24.99

MOBILE HF ANTENNAS (No Mounts)

Item	Description	AES Price
AB-5/PHF-SB	75/40/20/15/10m mobile ant D	$ 89.99
PHF-160B	160m 8' 3/8-24 whip...	89.99
PHF-75B	75m 8' 3/8-24 whip (4' coil, 4' whip)	29.99
PHF-40B	40m 8' 3/8-24 whip (4' coil, 4' whip)	23.99
PHF-30B	30m 8' 3/8-24 whip (4' coil, 4' whip)	23.99
PHF-20B	20m 8' 3/8-24 whip (4' coil, 4' whip)	23.99
PHF-17B	17m 8' 3/8-24 whip (4' coil, 4' whip)	23.99
PHF-15B	15m 8' 3/8-24 whip (4' coil, 4' whip)	23.99
PHF-12B	12m 8' 3/8-24 whip (4' coil, 4' whip)	23.99
PHF-10B	10m 8' 3/8-24 whip (4' coil, 4' whip)	23.99
PHF-6B	6m 58" 3/8-24 whip ...	23.99
103S	Quick disconnect/5 twist lock connectors	24.99

ASTATIC MOBILE HF ANTENNA (No Mount)

Item	Description	AES Price
AST-6BTV	75/40/20/15/10/6m mobile ant ...	$119.99
AST-GPK	3/8-24 mounting/ground plane kit	29.99

QRZ (WAL)

Item	Description	AES Price
Ham QRZ	US & international calls plus programs	$ 24.99

QSL Card Holders (ART)

Item	Description	AES Price
QSL Card Holders	pack of 3, 20 cards/holder	$ 18.99

RCA (RCA)

Item	Description	AES Price
108/FC60	F-56 connector w/o-ring for RG-6 ..Δ	$ .29
ACAC-5960	TV coax hex crimp tool ... Δ	9.99
AH-19	6' audio cable w/RCA plugs ... Δ	2.99
AH-211	25' audio cable w/RCA plugs ...D	3.99
ANT-1020	VHF TV/UHF TV/FM indoor ant ... Δ	19.99
RP-3710	AM/FM clock radio ... Δ	19.99
TA-25	25db VHF/UHF TV/FM distribution amp Δ	19.99
VH-84	6' audio/video cbl w/gold RCA plugs Δ	5.99

RF PARTS (See Diamond)

RADIOWAVZ (RAD)

Item	Description	AES Price
160MC/BALUN	250' 160m dipole w/1:1 balun	$ 75.99
80MC/BALUN	130' 80m dipole w/1:1 balun ..	55.99
40MC/BALUN	66' 40m dipole w/1:1 balun ...	45.99

Radiowavz - continued — AES Price

30MC/BALUN 46' 30m dipole w/1:1 balun 45.99
20MC/BALUN 32' 20m dipole w/1:1 balun 37.99
17MC/BALUN 26' 17m dipole w/1:1 balun 33.99
15MC/BALUN 22' 15m dipole w/1:1 balun 33.99
12MC/BALUN 19' 12m dipole w/1:1 balun 33.99
10MC/BALUN 17' 10m dipole w/1:1 balun 33.99

160M-DBZ 265' 160m double bazooka antenna 125.99
75M-DBZ 127' 75m double bazooka antenna 75.99
40M-DBZ 70' 40m double bazooka antenna . 45.99

G5RV 102' G5RV antenna, 32' tall 36.99
G5RV JR 51' G5RV antenna, 14' tall 25.99
G5RV LITE 68' G5RV antenna, 32' tall 40.99
G5RV MAX 204' G5RV antenna, 56' tall 65.99

SGC (SGC)

52-96 SG-500 1.8-24MHz 12v 500w PEP amp 1249.99
  51-82 Fan kit; continuous duty xmit SG500 269.99
54-14 SG-230 200w 1.8-30 MHz 12v Smartuner 489.99
54-15 SG-235 500w 1.8-30MHz 12v Smartuner 1169.99
54-18 SG-237 100w PEP HF+6m mini Smartuner ... 359.99
54-22 SG-239 200w Smartuner 179.99
  54-61 25' extension cable; Smartuners ...D 60.99
  54-63 SmartLock; SG230/237/239 after 9/1/93 59.99
54-25 MAC-200 Smartuner/ant switch combo 249.99
55-28 SG-307 1.8-60 7' mobile whip & mt .. 449.99
  55-69 SG-307 whip only 265.99
55-50 QMS-37 Quick mt sys/SG-237, less whip D 499.99
70-14 ADSP2 DSP noise reduction speaker .. 129.99

SAMLEX (SAM)

FCP-1000 1A ps w/cigarette lighter socket ...... $ 9.99
SEC-1223 23A switching ps w/fan, 24A surge 99.99
SI-175HP 175w 12vdc-115vac inverter 29.99
SI-400HP 400w 12vdc-115vac inverter 49.99
SPS-1204UL 3.5A switching ps+cig socket .. 29.99

SANGEAN (SAN)

ATS-404 AM/FM/SW portable receiver w/case ... $ 79.99
ATS-505P AM/FM/SW portable receiver 129.99
ATS-606AP AM/FM/shortwave portable receiver 139.99
ATS-909 AM/FM/shortwave portable Rcvr 249.99
DT-200V AM/FM/VHF TV sound dig port Rcvr 69.99
PR-D2 AM/FM portable dark grain "Q" radio 99.99
PT-50 AM/FM/SW portable receiver ....Δ 49.99
PT-80 Deluxe AM/FM/SW portable receiver 159.99
RCR-2 AM/FM atomic clock radio 69.99
WR-1 AM/FM wooden cabinet receiver 119.99

ANT-60 Portable wind-up SWL antenna 13.99

SCANCAT (SCA)

Lite-Plus Scanner programming software .Δ $ 19.99
Gold for Windows Dlx scanner prog software Δ 69.99

SEQUOIA (SEQ)

POCKET PC REF Pocket PC reference book ... $ 15.99
POCKET REF Pocket reference book 12.99
WinRef 98-95 Windows pocket reference book Δ 4.99

SHAKESPEARE (SHA)

396-1 3db 5' VHF marine ant, less mount .... $ 79.99
5101 6db 8' VHF marine ant, less mount 69.99
5202 6db 8' VHF mar ant/chrome ferrule, less mt 99.99
5206-C Econo 8' VHF mar ant/chrome ferrule, no mt 59.99
  495 White plastic lift & lay mount ....Δ 1.99
  4187 Stainless steel ratchet mount 39.99
5215 3db 36" sailboat VHF marine ant w/mt 49.99
420 3db 5' VHF marine ant w/fold-down mt . 79.99

PL-259-CP-G Solderless PL-259; RG-8X/58 .. 6.99
PL-258-CP-G Solderless splice; RG-8X/58 .... 9.99

Smiley Antenna (SMI)

270A 2m/220/440 gain telescopic whip .... $ 19.99
270A/SMA 2m/220/440 gain tele whip w/SMA 19.99

Smiley - continued — AES Price

5/8 SLD-2 2m ⅝ Slim Duck rubber ant 19.99
5/8 SLD-2/SMA 2m ⅝ Slim Duck rubber ant/SMA 19.99
5/8 SLD-220 220 ⅝ Slim Duck rubber ant 19.99
5/8 SLD-440 440 ⅝ Slim Duck rubber ant 19.99
5/8 SLD-2 Combo 2m ⅝ duck & stubby ant .. 29.99
5/8 SLD-220 Combo 220 ⅝ duck & stubby ant 29.99
5/8 SLD-440 Combo 440 ⅝ duck & stubby ant 29.99

FLX 1/2 WAV-2M ½ wv 2m BNC whip/flex coil 25.99

RD-2 2m rubber duck antenna 15.99
RD-220 220 rubber duck antenna 15.99
RDMD-2 2m mini rubber duck antenna 15.99
RDMD-440 440 mini rubber duck antenna ... 15.99
RDS-2 2m stubby rubber duck antenna 15.99
RDS-220 220 stubby rubber duck antenna ... 15.99
RDS-440 440 stubby rubber duck antenna ... 15.99

SD-2 2m Slim Duck thin rubber antenna 15.99
SD-220 220 Slim Duck thin rubber antenna . 15.99
SL-440 440 slimline type duck 15.99
SS-II Super Stick 2m ⅝ wv telescopic ant 19.99
SS-III Super Stick 220 ⅝ wv telescopic ant .. 19.99
SS-IV Super Stick 440 ⅝ wv telescopic ant ... 19.99
SS-II/Combo 2m ⅝ wv telescopic & stubby ant 29.99
SS-III/Combo 220 ⅝ wv telescopic & stubby ant 29.99
SS-IV/Combo 440 ⅝ wv telescopic & stubby ant 29.99

TAQ-2 2m ¼ wave stainless whip 10.99
TAQ-220 220 ¼ wave stainless whip 10.99
TAQ-440 440 ¼ wave stainless whip 10.99
TS Thin Stick 2m/220 ⅜ wave telescopic whip 16.99

SOLARCON (SOL)

A-99 10m/CB 17' 8" fiberglass base ant ...... $ 79.99
  GPK-1 Ground plane radial kit 59.99

SONY SHORTWAVE (SON)

ICF-SW11 AM/FM/SW compact receiver .... $ 49.99
ICF-SW12 AM/FM/SW travel Rcvr/world clock ... 89.99
ICF-SW35 AM/FM/SW portable receiver 89.99
ICF-SW40 AM/FM/SW portable receiver ......D 89.99
ICF-SW7600GR AM/FM/SW portable receiver 159.99
  AN-LP1 Folding active loop receive ant w/case 89.99
DCC-E260 Mobile DC adapter; ICF-SC1 ......D .29

STICKY PAD (STI)

13810 7¼" x 4⅛" sticky pad for handhelds, etc $ 5.99
13820 8¾" x 6⅞" sticky pad for larger items 9.99

Synthetic Textiles (SYN)

100' 3/32" black double braided rope .... $ 9.99
100' 3/16 3/16" black double braided rope 18.99
100' 5/16 5/16" black double braided rope 26.99
350' 3/16" black double braided rope 49.99

Terk Technologies (TER)

Advantage Indoor passive fine-tunable AM ant $ 49.99
FM-50 Amplified indoor/outdoor FM ant kit.Δ 9.99
HDTV-I Indoor UHF/VHF HDTV antenna 39.99
LF-30S 2.4GHz wireless vid/aud sys/rem features 99.99
LF-IRX Remote control extender 39.99
MOD-41 4-input video switch/converter 39.99
PI-B Indoor AM/amplified FM loop antenna .. 49.99
Tower Indoor AM/amplified FM tower antenna 24.99
TSP-6 8 outlet AC/TV/telephone surge protector D 9.99
TV-42 Clip-on mini dish mt amp TV ant; 2 LNB dish 49.99
TV-55 Indoor/outdoor TV antenna 99.99
TV-MAST TV antenna mast mount kit ....D .29
VR-1 TV volume regulator 49.99
VS4-MOD 4-input remote video switch/converter D 29.99
VS4-MOD+ 4-input remote video switch/converter 49.99

TESTORS (TES)

800002 1/32 radio control audi tt coupe/metal Δ $ 14.99

AES Price

Times Microwave (TMS)

LMR-400 Standard ⅜" coax cable ....per ft. $ .83
LMR-400 ....**500** ft. Roll 319.99
LMR-400-DB Watertight ⅜" coax cable per ft. .92
LMR-400-DB ....**500** ft. Roll 359.99
LMR-400-UF UltraFlex ⅜" coax cable ...per ft. 1.18
LMR-400-UF ....**500** ft. Roll 469.99

TIMEWAVE (TIM)

ANC-4 RF noise canceller $209.99
  AC-1 12vdc 600 ma adapter 15.99
  AC-5 12vdc 1.7A desktop ps 22.99
DSP-599zx All-mode DSP noise filter 436.99
  AC-5 12vdc 1.7A desktop ps 22.99
PK-96/100K 9600 baud controller/128K RAM 219.99
  (CSS) **PKTerm for Windows** Soft; PK-96/232 99.99
  AC-1 12vdc 600 ma adapter 15.99
  AC-5 12vdc 1.7A desktop ps 22.99
PK-232/PSK Multimode controller w/sound card 531.99
  (CSS) **PKTerm for Windows** Soft; PK-96/232 99.99
  AC-5 12vdc 1.7A desktop ps 22.99
TZ-900N .2-55MHz type N antenna analyzer . 1299.99
TZ-900S .2-55MHz SO239 antenna analyzer . 1299.99

TRAXXAS (TRX)

2410 Bandit RTR electric buggy w/TQ radio Δ $ 79.99
3606 Stampede RTR electric monster truck w/ESC Δ 99.99
3706 Rustler RTR electric stadium truck w/ESC Δ 99.99
3710 Rustler RTR electric stadium truck w/TQ Tx Δ 79.99
3906 E-Maxx RTR electric monster truck ....Δ 269.99

TRINITY (TRN)

RC-2141 Monster horsepower stock pro .....Δ $ 19.99

TRIPP LITE (TRI)

ISOBAR-8 ULTRA 8 outlet surge suppress/LEDs $ 79.99
SUPER-7 7 outlet surge suppressor 19.99
SUPER-7+TEL 7 outlet/fax modem surge 29.99

TUBES (TUB)

6146B Tube .... $ 26.99
12BY7A Tube 12.99

3-500ZG-RFP High dissipation tube (3-500Z) 179.99
572B Tube 49.99
811A Tube 19.99

US TOWER (UST)

FREE STANDING CRANK-UPS (not for T²X)

TX-438 38' crank-up tower ....T 1649.99
TX-455 55' crank-up tower ....T 2269.99
TX-472 72' crank-up tower ....T 3729.99
TX-472MDP 72' crank-up w/motor drive .....T 5999.99
TX-489MDPL 89' crank-up w/motor drive ...T 9729.99

FREE STANDING HD CRANK-UP TOWERS

HDX-538 38' crank-up tower ....T 1959.99
HDX-555 55' crank-up tower ....T 3419.99
HDX-572MDPL 72' crank-up w/motor drive .T 8919.99
HDX-589MDPL 89' crank-up w/motor drive .T 11669.99
HDX-689MDPL 89' HD crank-up w/motor ....T 22549.99
HDX-5106MDPL 106' HD crank-up w/motor T 24529.99

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS 33' crank-up tower ....T 1759.99
TMM-433HD 33' HD crank-up tower ....T 2119.99
TMM-541SS 41' crank-up tower ....T 2299.99

ACCESSORIES FOR CRANK-UP TOWERS

CX-2 Coax arms (2) for 2-section tower .... $ 80.99
CX-3 Coax arms (3) for 3-section tower 111.99
CX-4 Coax arms (4) for 4-section tower 164.99
CX-5 Coax arms (5) for 5-section tower 224.99
CX-6 Coax arms (6) for 6-section tower 284.99

HDP Service platform ....T 1619.99
IV-16 Inverted vee arm for MA's 60.99

US Tower - continued

	AES Price
M-5 2" OD 5' mast extension for MA's	60.99
M-10 2" OD 10' mast T	112.99
M-15 2" OD 15' mast T	154.99
M-15R 2" OD 15' reinforced mast T	234.99
M-20 2" OD 20' mast T	199.99
M-20R 2" OD 20' reinforced mast T	299.99
CM-20 2" OD 20' cromolly mast T	CALL
MD-75 Heavy duty 1 HP motor drive T	1319.99
MDP-750* Pull-down drive; TX-472/HDX-555 T	2049.99
MDPL-1000* Pull-down drive; HDX-572 T	2779.99
*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately	
MRF Mast raising fixture	389.99
MCL-100 Limit switch package	629.99
RMC-1000 Remote control w/limit switch	1319.99
TRX-80 Raising fixture; TX-438/455;HDX-538/555 T	599.99
TRX-80HD Raising fixture;TX-472/489;HDX-572/589 T	799.99
TRX-100HD Raising fixture; HDX-689/5106 T	1079.99
TB-2US Thrust bearing; 2" mast w/2 flange holes	144.99

MA-SERIES TUBULAR TOWERS

MA-40 40' crank-up tubular tower T	1299.99
MA-550 55' crank-up tubular tower T	2019.99
MA-550MDP 55' crank-up tubular w/motor T	3859.99
MA-770* 70' crank-up tubular tower T	3329.99
MA-770MDP* 70' crank up tubular w/motor T	5279.99
MA-850* 85' crank-up tubular tower T	5159.99
MA-850MDP* 85' crank-up tubular w/motor T	7099.99
*Requires MAB or MARB-series base	

MA-SERIES ACCESSORIES

CX-2M Coax arms (2) for MA-40	$ 85.99
CX-3M Coax arms (3) for MA-550	119.99
CX-4M Coax arms (4) for MA-770	199.99
CX-5M Coax arms (5) for MA-850	234.99
MAB-40 Hinged base for MA-40 T	489.99
MAB-550 Hinged base for MA-550 T	579.99
MAB-770 Hinged base for MA-770 T	699.99
MAB-850 Hinged base for MA-850 T	849.99
MAF-40 Raising fixture for MA-40	299.99
MAF-550 Raising fixture for MA-550 T	409.99
MAF-770 Raising fixture for MA-770 T	519.99
MAF-850 Raising fixture for MA-850 T	639.99
MARB-40 Rotor base accessory for MA-40 T	739.99
MARB-550 Rotor base accessory for MA-550 T	849.99
MARB-770 Rotor base accessory for MA-770 T	1029.99
MARB-850 Rotor base accessory for MA-850 T	1219.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Woodlake, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)

UNIDEN (UNI)

PC-68 Elite AM Mobile CB w/WX alert	$ 99.99
PC-68LTW AM Mobile CB w/WX alert	79.99
PC-68XL AM Mobile CB	74.99
PC-78 Elite AM Mobile CB w/WX alert	119.99
PC-78LTW AM Mobile CB w/WX alert	99.99
PC-78XL AM Mobile CB	94.99
PRO-510XL AM Mobile CB	39.99
PRO-520XL AM Mobile CB	54.99

Uniden - continued

	AES Price
PRO-538W AM Mobile CB w/WX	59.99

UNIDEN BEARCAT

BC-244CLT 30 ch scanner w/instant WX D	$ 89.99
BC-248CLT 50 ch scanner w/WX alert D	99.99
BC-278CLT 100 ch scan/800/SAME WX alert D	119.99
BC-340CRS 100 ch scanner w/SAME WX	99.99
BC-350C 100 ch prog/service search w/AC ps	99.99
BC-370CRS 300 ch scanner/800/SAME WX	139.99
BC-796D 1000 ch prog/trunk/SAME WX/dig D	499.99
BC-898T 500 ch prog scanner/trunking/preprog	209.99
BCD-996T 6000 ch prog/trunk/SAME WX/dig	549.99
BCT-8 Preprog warning scan/800/trunk/AC ps	179.99
BCT-15 2500 ch prog scanner/800/trunk	239.99
BC-72XLT 100 ch pocket scanner	99.99
BC-92XLT 200 ch prog pocket scanner/800	119.99
AD-100 AC adapter/batt cgr; earlier scanners Δ	2.99
BC-003 Switch box for BC-002 Δ	.29
BCI-25D Digital board for BC-785D/250D D	149.99
BP-180 Extra battery; BC-245XLT Δ	16.99
BP-200 Extra battery; BC-200XLT Δ	26.99
BP-205 Extra battery; BC-100XLT Δ	26.99
BP-250 Extra battery for BC-296D Δ	14.99
BP-2500 Extra battery; BC2500/3000 D	63.99
CRX-120 Desk charger; BC-245XLT Δ	14.99
LC-120 Carrying case; BC230XLT/245XLT D	9.99
NC-250D Carrying case; BC-250D/296D Δ	16.99
SC-180B 100 ch sport pocket/800 MHz D	129.99
SC-200 200 ch sport pocket/800 MHz D	149.99
AD-70 Extra charger Δ	10.99
BP-120 Extra battery Δ	18.99
(KOS) **QZ/99** Noise reduction headphones	59.99
UA-502 Cig power cord Δ	9.99
SC-230 1600+ch pocket/800/SAME WX	199.99
BC-246T 1600+ ch pocket scanner/trunking	229.99
BADG0687001 DC cord	22.99
NC-246T Carrying case	19.99
BR-330T 2500 ch pocket/trunking/race track	279.99
BADG0687001 DC cord	22.99
BCD-396T 3000+ch pocket/trunk/SAME/dig	549.99
BADG0687001 DC cord	22.99

MARINE

Atlantis-250 5w VHF marine handheld	$ 99.99
MHS-350 Waterproof 5w VHF marine handheld	149.99
Mystic 5w VHF marine handheld/GPS/DSC	299.99
Voyager 5w VHF marine handheld/lith ion batt	169.99
Oceanus-DSC 25w 90 ch VHF marine Xcvr/DSC	139.99
Polaris 25w VHF marine Xcvr w/hailer D	119.99
Solara-DSC 25w 90 ch VHF marine Xcvr/DSC	99.99
UM-525 25w VHF marine Xcvr w/hailer	199.99
UM-625C 25w VHF marine Xcvr/color TFT/hailer	299.99

Unified Microsystems (UNM)

VK-64 CW/voice keyer	$229.99
KC-4 CW cable for VK-64 to transceiver	9.99
VKC-8 8-pin audio cable for VK-64 to Xcvr	24.99
XT-4 Small size CW memory keyer	69.99
KC-4 CW cable for XT-4 to transceiver	9.99
W9XT Contest card for IBM PC & compatible	139.99
CCC-8 8pin mic contest card cable semi-kit	44.99

Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower T	$359.99
9-30 9 sq ft wind load 30' alum tower T	483.99
12-30 12 sq ft wind load 30' alum tower T	635.99
21-30 21 sq ft wind load 30' alum tower T	755.99
23-30 23 sq ft wind load 30' alum tower T	999.99
35-30 35 sq ft wind load 30' alum tower T	1125.99
4-40 4 sq ft wind load 40' alum tower T	602.99
7-40 7 sq ft wind load 40' alum tower T	756.99
9-40 9 sq ft wind load 40' alum tower T	843.99

Universal - continued

	AES Price
12-40 12 sq ft wind load 40' alum tower T	999.99
15-40 15 sq ft wind load 40' alum tower T	1116.99
21-40 21 sq ft wind load 40' alum tower T	1215.99
23-40 23 sq ft wind load 40' alum tower T	1459.99
4-50 4 sq ft wind load 50' alum tower T	847.99
5-50 5 sq ft wind load 50' alum tower T	964.99
7-50 7 sq ft wind load 50' alum tower T	1085.99
9-50 9 sq ft wind load 50' alum tower T	1206.99
15-50 15 sq ft wind load 50' alum tower T	1577.99
16-50 16 sq ft wind load 50' alum tower T	1680.99
4-60 4 sq ft wind load 60' alum tower T	1207.99
6-60 6 sq ft wind load 60' alum tower T	1481.99
7-60 7 sq ft wind load 60' alum tower T	1551.99
9-60 9 sq ft wind load 60' alum tower T	1665.99
3-70 3 sq ft wind load 70' alum tower T	1575.99
4-70 4 sq ft wind load 70' alum tower T	1884.99
6-70 6 sq ft wind load 70' alum tower T	1945.99
7-70 7 sq ft wind load 70' alum tower T	2008.99
3-80 3 sq ft wind load 80' alum tower T	2098.99
4-80 4 sq ft wind load 80' alum tower T	2408.99
2-90 2 sq ft wind load 90' alum tower T	2496.99
B-14 Base for tower	78.99
B-18 Base for tower	78.99
B-22 Base for tower	119.99
B-26 Base for tower	150.99
Extra **14" stubs** (between base & tower) .set	15.99
Extra **18" stubs** (between base & tower) .set	27.99
Extra **22" stubs** (between base & tower) .set	44.99
Extra **26" stubs** (between base & tower) .set	44.99
RFM-11 Flat roof mt for guyed tower	51.99
RFM-14 Flat roof mt for guyed tower	51.99
RFM-18 Flat roof mt for guyed tower	81.99
RFM-22 Flat roof mt for guyed tower	108.99
RFM-26 Flat roof mt for guyed tower	145.99
R-11 Rotor mount	36.99
R-14 Rotor mount	55.99
R-18 Rotor mount	72.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top 11" top tower section T	121.99
14 Top 14" top tower section T	153.99
18 Top 18" top tower section T	278.99
14 Taper 14" taper tower section T	135.99
18 Taper 18" taper tower section T	242.99
22 Taper 22" taper tower section T	360.99
26 Taper 26" taper tower section T	515.99
11 Straight 11" straight tower section T	119.99
14 Straight 14" straight tower section T	135.99
18 Straight 18" straight tower section T	242.99
22 Straight 22" straight tower section T	360.99
26 Straight 26" straight tower section T	515.99
HD35-40 35 sq ft wind load 40' alum tower T	1679.99
HD21-50 21 sq ft wind load 50' alum tower T	1794.99
HD9-60 9 sq ft wind load 60' alum tower T	1885.99
HD16-60 16 sq ft wind load 60' alum tower T	2255.99
HD21-60 21 sq ft wind load 60' alum tower T	2377.99
HD8-70 8 sq ft wind load 70' alum tower T	2127.99
HD12-70 12 sq ft wind load 70' alum tower T	2619.99
HD17-70 17 sq ft wind load 70' alum tower T	2838.99
HD21-70 21 sq ft wind load 70' alum tower T	2960.99
HD8-80 8 sq ft wind load 80' alum tower T	2711.99
HD9-80 9 sq ft wind load 80' alum tower T	2828.99
HD11-80 11 sq ft wind load 80' alum tower T	3199.99
HD12-80 12 sq ft wind load 80' alum tower T	3202.99
HD16-80 16 sq ft wind load 80' alum tower T	3419.99
HD4-90 4 sq ft wind load 90' alum tower T	2826.99
HD8-90 8 sq ft wind load 90' alum tower T	3321.99

Universal - continued

	AES Price
HD11-90 11 sq ft wind load 90' alum tower T	3784.99
HD4-100 4 sq ft wind load 100' alum tower T	3753.99
HD8-100 8 sq ft wind load 100' alum tower T	4025.99
B-30 Base for HD tower	222.99
Extra **30" stubs** (between base & tower) .set	66.99
RFM-30 Flat roof mt for guyed tower	203.99
30 Taper 30" taper tower section .....T	581.99
30 Straight 30" straight tower section .....T	581.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC Flange bearing	98.99
2-3/16SC Flange bearing	109.99
Top Plate Flange plate welded to top section	26.99
1-1/4" OD x 5 ft aluminum mast .....T	23.99
1-1/4" OD x 10 ft aluminum mast .....T	37.99
1-1/2" OD x 10 ft aluminum mast .....T	45.99
2" OD x 8 ft aluminum mast	55.99
2" OD x 16 ft aluminum mast .....T	99.99

All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

VALOR (See PRO AM)

VANCO (VCO)

370052 3½ digit multimeter	$ 19.99
CL-3 Extra heavy duty alligator clip leads (10)	8.99
HF-24RS Scanner headphones w/dual volume	19.99
SWR-1 SWR/field strength meter	29.99
SWR-3 Mini SWR meter	14.99

VAN GORDEN (VAN)

Hi-Q 1:1 balun	$ 18.99
Hi-Q 4:1 balun	18.99
Antenna center insulator	9.99
Antenna end insulator .....pair	6.99
Dog bone type antenna insulator .....each	.99
NR-100 Nylon antenna guy rope .....100 ft.	6.99
NR-1000 Nylon ant guy rope .....1000 ft.	50.99
D-80 80m 130' wire dipole antenna	41.99
SD-80 Short 90' 80m wire dipole antenna	46.99
D-40 40m 66' wire dipole antenna	38.99
SD-40 Short 45' 40m wire dipole antenna	44.99
D-20 20m 33' wire dipole antenna	36.99
D-15 15m 22' wire dipole antenna	35.99
D-10 10m 16' wire dipole antenna	34.99
PD-4010 40/20/15/10m 66' parallel dipole ..	49.99
PD-4020 40/20/15m 66' parallel dipole	43.99
PD-8010 80/40/20/15/10m 130' parallel dipole	55.99
PD-8040 80/40/15m 130' parallel dipole	51.99
All Bander Dipole 160-10m (use tuner) 135' ant	35.99
Shorty All Bander 160-10m (use tuner) 70' ant	55.99
G5RV Flat-top 3.5-30 102' ant/xmfr/100' cable	60.99
G5RV-E Flat-top 3.5-30 102' ant/31' twinlead	35.99
G5RV JR Flat-top 7-30 52' ant/17' twinlead .	30.99
G5RV-M Flat-top 1.8-30 204' ant/65' twinlead	60.99
Silver plated teflon PL-259	2.99
#14 Stranded hard drawn ant wire ....100 ft.	11.99
#14 Stranded hard drawn ant wire ....150 ft.	16.99
300 ohm 1kw transmitting twinlead ...100 ft.	19.99

Van Gorden - continued

	AES Price
450 ohm 18ga solid ladderline .....100 ft.	19.99
450 ohm 18ga solid ladderline .....1000 ft.	149.99
450 ohm 14ga stranded ladderline .....100 ft.	39.99
450 ohm 14ga stranded ladderline ...1000 ft.	299.99
(WA1) WA1FFL **Ladder-Loc** 450 ohm ctr ins	12.99
RG-213 Non-contaminating .....per ft.	.59
RG-213/500 Non-contaminating .500 ft. Roll	219.99
8X-1.5ST 1.5' RG-8X coax/silver teflon PL259s	9.99
8X-3ST 3' RG-8X coax/silver teflon PL259s ...	10.99
8X-6ST 6' RG-8X coax/silver teflon PL259s ...	12.99
8X-12ST 12' RG-8X coax/silver teflon PL259s	15.99
8X-25ST 25' RG-8X coax/silver teflon PL259s	22.99
8X-50ST 50' RG-8X coax/silver teflon PL259s	32.99
8X-75ST 75' RG-8X coax/silver teflon PL259s	40.99
8X-100ST 100' RG-8X coax/silver teflon PL259s	47.99
213-25ST 25' RG-213 coax/silver teflon PL259s	34.99
213-50ST 50' RG-213 coax/silver teflon PL259s	50.99
213-75ST 75' RG-213 coax/silver teflon PL259s	72.99
213-100ST 100' RG-213 coax/silver teflon PL259s	90.99

VECTRONICS (VEC)

AT-100 .3-30 MHz active antenna/tuner ....Δ	$ 59.99
DL-300M 300w 150MHz dummy load	49.99
DL-650M 1.5kw 650MHz dummy load	79.99
DL-2500 2.5kw 150MHz dummy load	199.99
HFT-1500 1.5kw antenna tuner	429.99
HPF-1 High pass filter, 75 or 300 ohms	24.99
HPF-2 Deluxe high pass filter, 75 or 300 ohms	29.99
LP-30 1.5kw low pass filter	79.99
LP-2500 2.5kw low pass filter	139.99
PM-30HF 300/3kw HF/6m wattmeter	79.99
PM-30UV 30/300w 2m/220/440 wattmeter ..	89.99
VC-300D 300w digital antenna tuner .....Δ	139.99
VC-300DLP 300w antenna tuner	159.99
VC-300M 300w mobile antenna tuner	119.99
121K Crystal radio set kit	19.99
131K Aircraft receiver kit	29.99
201K CW keyer kit	24.99
412K Nicad/NiMH battery conditioner kit ...Δ	4.99
422K FM broadcast SCA decoder kit	27.99
830K Super SSB audio filter kit	19.99
841K Tunable SSB/CW audio filter kit	34.99
1140K 40m receiver kit	29.99
1240K 40m QRP CW transmitter kit	29.99
1290K AM radio transmitter kit	29.99

VELLEMAN (VEL)

AVM-2050 Analog sound level meter	$ 29.99
AVW-089 3 channel audio/video switcher	8.99
DVM-810 3½ digit digital multimeter	9.99
DVM-850BL Deluxe 3½ digit DMM w/holder ...	19.99
EL-301 30 in 1 electronic lab kit	39.99
EL-1301 130 in 1 electronic lab kit	89.99
EL-3001 300 in 1 electronic lab kit	129.99
K/TF 75-piece cable ties	2.99
TLM-2 Test lead set w/banana plugs	2.99
TLM-10 Test probe set	4.99
VT-BT6 33-piece screwdriver bit set	6.99
VT-COAX Coax stripper; RG-58/59/62/6	14.99
VT-D2 Heavy duty desoldering pump	3.99
VT-LAMP2U Hobby magnifier lamp w/table mt	49.99
VT-M468L Crimp tool for RJ-10/11/45	9.99
VT-SET 5-piece pliers	9.99
VT-SET3N 6-pc electronics screwdriver set ...	9.99
VT-SET21N 8-in-1 screwdriver set	4.99
VT-TS 25-piece hobbyist tool set	9.99

VIBROPLEX (VIB)

090 Original Gold Bug	$309.99
100 Original Presentation Super deluxe bug	269.99
105 Original Deluxe Bug	209.99
110 Original Standard Bug	179.99

Vibroplex - continued

	AES Price
113 VibroKeyer Gold Paddle	279.99
115 VibroKeyer Deluxe Paddle	199.99
120 VibroKeyer Standard Paddle	159.99
123 Iambic Gold Paddle	279.99
125 Iambic Presentation Paddle	269.99
130 Iambic Deluxe Paddle	199.99
135 Iambic Standard Paddle	159.99
145 Triangular Brass Racer Iambic paddle .	149.99
150 Square Brass Racer Iambic paddle	149.99
153 Gold straight key	279.99
155 Standard straight key	159.99
160 Deluxe straight key	199.99
162 Gold Hand key/Iambic Paddle double	399.99
163 Gold Hand key/VibroKeyer Paddle double	399.99
165 Deluxe Hand key/Iambic Paddle double .	349.99
170 Dlx Hand key/VibroKeyer Paddle double .	349.99
175 Standard Hand key/Iambic Paddle double	319.99
180 Std Hand key/VibroKeyer Paddle double .	319.99
185 Square Racer Deluxe Iambic paddle	149.99
190 Square Racer Standard Iambic paddle .	129.99
195 Blue Racer 2000 Std Millennium Bug ...	199.99
198 Blue Racer 2000 Dlx Millennium Bug ...	219.99
200 Code Warrior Junior Paddle	109.99
CP-3 Cord & plug for Iambic & Vibrokeyer	9.99

WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach	$ 12.99

W2AU (Unadilla) (W2A)

W2AU 1:1 160-10m balun, lightning arrestor	$ 24.99
W2AU 4:1 160-10m balun, lightning arrestor	24.99
W2AU Beam Balun, 1:1	24.99
W2DU-HF 1:1 1.8-30 MHz choke balun	26.99
W2DU-VHF 1:1 30-250 MHz choke balun	26.99
W2DU Beam Balun 40-10m 1:1 choke balun	26.99
HA AN-sulator center insulator	9.99
HE END-sulator end insulators .....pair	6.99
KW-80CW Reyco 80m CW ant traps .....pair	48.99
KW-80F Reyco 75m phone ant traps .....pair	48.99
KW-60 Reyco 60m antenna traps .....pair	46.99
KW-40 Reyco 40m antenna traps .....pair	42.99
KW-30 Reyco 30m antenna traps .....pair	42.99
KW-20 Reyco 20m antenna traps .....pair	41.99
KW-17 Reyco 17m antenna traps .....pair	41.99
KW-15 Reyco 15m antenna traps .....pair	41.99
KW-12 Reyco 12m antenna traps .....pair	41.99
KW-10 Reyco 10m antenna traps .....pair	41.99
W2AU/W2VS 5-band ant kit (use tuner)	85.99

W4RT (W4R)

Antenna Boss interface;mot ant/FT100/847/57/97	$149.99
Antenna Boss II interface;motor ant/IC706/7000/etc	149.99
(LDG) **K-OTT** Kenwood 1-touch tune interface	59.99
KB-2 Cable for Ant Boss II w/LDG K-OTT	10.99
YB-OTT FT-100/817/857/897 interface	59.99
YB-2 Cable for Ant Boss II w/W4R YB-OTT	10.99
OBF-703/718-DIY CW&SB Collins filts;IC703/718	240.99
OBF-817/ND-DIY CW & SSB Collins filts;FT-817	240.99
OBP-STD Speech compress; 817/47/57/97 handmic	49.99
OBP-UNIV Speech compress; IC706/FT100 handmic	49.99
OPF-CW 500Hz Collins CW filter; FT817/57/97	114.99
OPF-SSB 2.3KHz Collins SSB filter; FT817/57/97	129.99

W5YI (W5Y)

BCOM Basic Communications Electronics book	$ 19.99
BDIG Basic Digital Electronics book	19.99
BELC Basic Electronics book	19.99
ECS-02 Extra upgrade software w/manual ...	39.99
GROL Commercial license elements 1/3/8 manual	39.99
GRSP Commercial study software w/GROL book	69.99
GSTD Getting Started in Electronics book	19.99
GUS-04 General upgrade software w/manual	39.99

W5YI - continued

	AES Price
GW05/CD Gordon West 8 ea 0-5 wpm code CD's	39.99
GWCT Gordon West refresher code course CD's	14.99
GWEM-02 Gordon West Extra study manual ..	19.99
GWEW-02/CD Gordon West 7 ea Extra theory CD's	39.99
GWGM-04 Gordon West General study manual	17.99
GWGW-04 Gordon West 4 ea General theory CD's	27.99
GWTM-06 Gordon West Tech study manual ...	18.99
GWTW-06 Gordon West 4 ea Tech theory CD's	27.99
HOS-06 Ham operator software/code (all classes)	39.99
HOSB-06 Ham op soft/code/3 books (all classes)	84.99
Mini-1 Timer, op amp & optoelectronics	12.99
Mini-2 Science & communications	12.99
Mini-3 Electronic sensors	12.99
Mini-4 Electronic formulas, symbols & circuits	12.99
NCS-06 Technician software w/manual	44.99
TPG-06 Tech/General software/manuals/code	64.99
WMC 0-48 wpm code software	19.99

WAHL (WAH)

7740 Quick charge cordless soldering iron kit	$ 52.99
7971 30 minute butane soldering iron	25.99
7974 120 minute butane soldering iron	39.99

Watson Guptill (WAT)

059979 2007 World Radio TV Handbook	$ 29.95

WELLER (WEL)

7200PK 75w soldering gun kit	$ 30.99
7235 Extra standard tips (2) for 7200PK ...	3.99
CHT-100 ColdHeat Pro soldering tool	31.99
SP-23LK 25w soldering iron kit	18.99
WP-25 25w professional soldering iron	35.99
ST-4 3/16" screwdriver tip for WP-25	4.99
ST-5 1/32" single flat tip for WP-25	4.99
W-60P 60w temp controlled soldering iron ...	68.99
CT-5E7 1/4" screwdriver tip for W-60P	5.99
WESD51 50w adjustable soldering station ...	149.99
WSTA3 Pyropen portable LP soldering iron	99.99
WST2 Pyropen Jr. portable butane iron .....Δ	79.99
WTCPT 60w temp controlled soldering stn	119.99

West Mtn Radio (WES)

CBA-2 Computerized battery analyzer w/software	$ 99.99
CBA/TEMP Temperature probe for CBA-2 ...	10.99
PG-40 PWRgate simple backup power system	69.99
PG-40S PWRgate backup power sys w/charger	119.99
RB/PR/C Rigblaster Pro; 8-pin/RJ-45	249.99
RB/PL/C Rigblaster Plus; 8-pin/RJ-45	129.99
RB/NO/CU Rigblaster nomic universal; 8-pin/RJ-45	69.99
FT100/CBL 3' cable; Yaesu RJ-45/6-wire ...	14.99
RR/4005/C Rigrunner 40A 5outlet/cbl/connectors	74.99
RR/4008/C Rigrunner 40A 8outlet/cbl/connectors	99.99
RR/4010S/C Rigrunner FET 9outlet/cbl/connectors	129.99
RR/4012/C Rigrunner 40A 12outlet/cbl/connectors	114.99
RR/8012/C Rigrunner 80A 12outlet/cbl/connectors	139.99
C30/PK/12 12-pair 30A PowerPole connectors	11.99
C45/PK/12 12-pair 45A PowerPole connectors	13.99
PWR/TOOL PWRcrimp PowerPole crimp tool	49.99
RT-1 Rigtalk USB rig control interface	49.99
CATMINI/CBL Yaesu cable for RT-1	12.99
CIV/CBL Icom/Ten-Tec cable for RT-1	7.99
WHAT/MTR Whattmeter watt/volt/amp/amp hr	69.99

Wiley Publishing (WIE)

Astro Dummies Astronomy for Dummies book Δ	$ 19.99
GPS Dummies Gps for Dummies book	21.99
HR for Dummies Ham Radio for Dummies book	21.99
WX for Dummies Weather for Dummies book	21.99

WILSON (WIL)

FGT-4/BLK 4' black figerglass CB whip	$ 29.99
FGT-4/WHT 4' white figerglass CB whip	29.99
Little Wil Magnetic mt CB antenna	39.99

Wilson - continued

	AES Price
Trucker 2000 Black mobile 3/4-24 CB whip ...	62.99
W-1000 Magnetic Black mobile CB antenna	76.99
W-1000 Roof Top Black mobile CB antenna .	59.99
W-1000 Trunk Lip Black mobile CB antenna	66.99

WINEGARD (WIN)

CX-0625 25' RG-6 TV coax w/F connectors ...	$ 10.99
CX-0650 50' RG-6 TV coax w/F connectors ...	15.99
CX-0675 75' RG-6 TV coax w/F connectors ...	19.99
CX-6100 100' RG-6 TV coax w/F connectors .	24.99
PR-7010 22 el 66.5" boom Prostar TV ant	49.99
PR-7032 33 el 103.25" boom Prostar TV ant	79.99
PR-7042 43 el 149.75" boom Prostar TV ant	119.99
TV-2900 Outdoor TV matching transformer	2.99

YAESU (YAE)

FTDX-9000 Contest 200w HF/6m Xcvr	5699.99
FTDX-9000D Deluxe 200w HF/6m Xcvr	11499.99
FTDX-9000MP High Power 400w HF/6m Xcvr	12049.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic .	399.99
MH-31B8 Extra hand microphone	49.99
SP-9000 Ext dual spkr sys/audio filts; Contest/D	369.99
YH-77STA Open-air type stereo headphones	59.99
FT-2000 100w HF/6m AC/DC DSP Xcvr	2999.99
DMU-2000 Data management unit	999.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic .	399.99
MH-31B8 Extra hand microphone	49.99
MTU-160 u-tuning kit A for 160m	499.99
MTU-80/40 u-tuning kit B for 80/40m	499.99
MTU-30/20 u-tuning kit C for 30/20m	499.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-897D HF/6m/2m/430 port/base Xcvr/TCXO	Call/Web
(BET) **Yae Tune Contr**ol for FT-897 series ...	44.99
(W4R) **Antenna Boss** interface; other mfgr mot ant	179.99
(W4R) **OPF-CW** 500Hz Collins CW filter	114.99
(W4R) **OPF-SSB** 2.3KHz Collins SSB filter ..	129.99
FP-30 Internal power supply	229.99
ADMS-4B Windows prog software w/cable .	59.99
ATAS-120 HF/6/2/430 motorized mob ant †	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A Packet cable	11.99
CT-62 CAT interface cable	36.99
EDC-20 Extra DC cable	18.99
FC-30 Antenna tuner; bolts to FT-897	199.99
FC-40 Automatic antenna tuner .....†	279.99
FNB-78 4.5ah NiMH batt (will accept 2) ...	129.99
CD-24 4-hr charge adapter for FNB-78 ..	129.99
PA-26B 110vac charger for CD-24	89.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic .	399.99
MH-36E8J TTP mic	69.99
MH-59A8J Remote control TTP mic	79.99
MLS-100 Mobile speaker	49.99
MMB-80 Mobile mounting bracket	39.99
T-9023225 Extra DC cable .....Δ	26.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-857D Mini HF/6m/2m/430 Xcvr/DSP	Call/Web
(BET) **Yae Tune Contr**ol for FT-857 series ...	44.99
(W4R) **Antenna Boss** interface; other mfgr mot ant	179.99
(W4R) **OPF-CW** 500Hz Collins CW filter	114.99
(W4R) **OPF-SSB** 2.3KHz Collins SSB filter ..	129.99
FP-1023 23A switching ps w/fan, 25A surge ...	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99

Yaesu - continued

	AES Price
ADMS-4B Windows prog software w/cable .	59.99
ATAS-120 HF/6/2/430 motorized mob ant †	299.99
ATBK-100 Antenna base kit; use w/base mt	99.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A Packet cable	11.99
CT-58 Band data cable; Yaesu amplifier ...	34.99
CT-62 CAT interface cable	36.99
EDC-20 Extra DC cable	18.99
FC-30 Antenna tuner	199.99
FC-40 Automatic antenna tuner .....†	279.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic .	399.99
MH-36E8J TTP mic	69.99
MH-59A8J Remote control TTP mic	79.99
MLS-100 Mobile speaker	49.99
T-9023225 Extra DC cable .....Δ	26.99
TCXO-9 TCXO unit, 0.5 ppm.....	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
YH-77STA Open-air type stereo headphones	59.99
YSK-857 Separation kit	69.99
FT-817ND 5w HF/6/2/430 Xcvr/FNB85/NC72B	Call/Web
(W4R) **OBF-817/ND-DIY** CW & SSB Collins filts	240.99
(W4R) **OPF-CW** 500Hz Collins CW filter	114.99
(W4R) **OPF-SSB** 2.3KHz Collins SSB filter ..	129.99
ADMS-4A Windows prog software w/cable .	59.99
ATAS-25 40/20/15/10/6/2/430 7.2' port ant	249.99
CSC-83 Soft case w/side pocket for FT-817	29.99
CT-39A Packet cable	11.99
CT-62 CAT interface cable	36.99
EDC-6 Extra DC cord; plug & wire only	8.99
FNB-72 9.6v 1000mah nicad battery .....Δ	19.99
FNB-85 9.6v 1400mah NiMH battery	69.99
MH-36E8J TTP mic	69.99
MLS-100 Mobile speaker	49.99
NC-72B Extra nicad wall charger	24.99
TCXO-9 TCXO unit, 0.5 ppm.....	109.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YF-122S 2.3KHz Collins SSB filter	169.99
CT-61 Interface cable; FT-847 to amp .....Δ	15.99
DSP-2 DSP unit for original FT-857 .....Δ	49.99
DVS-2 Digital voice module; Mk V/Field .....Δ	239.99
FC-10 External coax fed auto tuner .....Δ	429.99
FC-20 Automatic antenna tuner; FT-847 ....Δ	269.99
FC-800 External long wire auto tuner .....Δ	469.99
FH-1 Remote control keypad; Mk V/Field ....Δ	94.99
FIF-232C RS-232 interface; FT840/FRG100B Δ	99.99
FM-1 FM unit for FT-920 .....Δ	59.99
FM-747 FM unit; FT-840 .....Δ	69.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
FTV-1000 200w 6m transverter; Mk V .....Δ	799.99
FRB-5 Relay board; FTV-1000/orig MP ....Δ	49.99
MH-36D8 TTP mobile mic; FT-847 ..... Δ	69.99
MMB-20 Mobile mount; FT-840 .....Δ	39.99
MMB-66 Mobile mounting bkt; FT-847 .....Δ	44.99
MMB-67 Quick release bracket; FT-100D .....Δ	24.99
SP-8 External speaker w/filters; Mk V/Field ....Δ	174.99
LL-7 Phone patch unit for SP-8 .....D	149.99
T-9018320 DC cable; FT-840/847/Field .....Δ	26.99
T-9021925 Extra DC cord; FT-100D .....Δ	39.99
TCXO-4 TCXO unit; FT-840/FRG-100B .....Δ	109.99
TCXO-6 Deluxe TCXO unit, Mk V/Field .....Δ	189.99
TCXO-7 TCXO unit for FT-920 .....Δ	99.99
XF-117A 6 KHz AM filter; FT-100D .....Δ	129.99
XF-117CN 300 Hz CW filter; FT-100D .....D	69.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner	169.99
YA-30 1.8-30 MHz broadband dipole ant	259.99

Yaesu - continued

	AES Price
YF-110CN 250Hz 3rdIFCWfilt;FRG/MkV&Field Δ	159.99
YF-110SN 2KHz 3rd IF SSB filt;Mk V/Field ..Δ	159.99
YF-112A 6 KHz AM filter; FT-840 .....Δ	129.99
YF-112C 500 Hz CW filter; FT-840 .....Δ	129.99
YF-114CN 250Hz 2nd IF CW filt;Mk V/Field Δ	159.99
YF-114SN 2KHz 2nd IF SSB filt;Mk V/Field .Δ	159.99
YF-115C 500Hz CW Collins filt;FRG/MkV&Field Δ	169.99
YF-115S-02 2.5KHz Collins SSB filter;FT847 D	169.99
YF-116A 6 KHz AM filter for FT-920 .....Δ	119.99
YF-116C 500 Hz CW filter for FT-920 .....Δ	119.99
YH-77STA Open-air type stereo headphones .	59.99
YSK-100 Separation kit for FT-100D .....Δ	99.99
Quadra System VL/VP1000 HF+6m amp/ps/tuner	3899.99
FRG-100B .1-30 MHz shortwave receiver .Δ	499.99
FIF-232C RS-232 interface;FRG100B/FT840 .Δ	99.99
FM Unit-100 FM unit for FRG-100B .....Δ	39.99
TCXO-4 TCXO unit; FRG-100B/FT-840 .....Δ	109.99
YF-110CN 250Hz CW filt;FRGMkV&Field .Δ	159.99
YF-115C 500Hz CW Collins filt;FRGMkV&Field Δ	169.99
VR-120D .1MHz-1.2995GHz AM/FM hand/cell blkd .	Call/Web
CA-34 Charger sleeve; NC-82/VR-120D	5.99
CSC-76 Soft case for VR-120/D	19.99
CT-35 Clone cable; VR-120/D .....D	1.99
EDC-15 DC adapter	39.99
FNB-79 Nicad battery for VR-120D	10.99
NC-82 Charger stand	10.99
PA-30B AC adapter	8.99
VR-500 .1M-1.3G AM/FM/SSB hand/cell blkd ...	Call/Web
ADMS-3 Windows programming software ..	39.99
CSC-72 Soft case for VR-500	19.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC adapter; plug & wire only	8.99
FNB-59 Nicad battery for VR-500	29.99
NC-60B Wall charger	16.99
VR-5000 .1M-2.6G base rcvr AM/FM/SSB/cell blkd	Call/Web
DSP-1 DSP unit	119.99
DVS-4 Digital voice recorder	49.99
E-736 DC cable for FT-736R .....Δ	19.99
FT-7800R 50w 2m/40w 440 FM Xcvr/WX alert	264.99
ADMS-2K Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
T-9021715 Extra DC cable	12.99
YSK-7800 Remote separation kit	59.99
FT-8800R 50w 2m/35w 440 FM Xcvr	Call/Web
ADMS-2I Windows programming software .	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	59.99
FT-8900R 50w 10m/6m/2m/35w 440 FM Xcvr	Call/Web
ADMS-2H Windows programming software	39.99
CT-39A Packet cable	11.99
MLS-100 Mobile speaker	49.99
MMB-60 Quick release mobile mount	39.99
MMB-62 Remote front panel mounting bkt	44.99
T-9021810 Extra DC cable	12.99
YSK-8900 Remote separation kit	59.99
AD-3 100w 2m/440 duplexer .....D	59.99
ADMS-2E Windows prog soft; FT-2600M/90R Δ	39.99
ADMS-2F Windows prog software; FT-1500M Δ	39.99
ADMS-2G Windows prog soft; FT-7100M ....Δ	29.99
RA-0242900 Extra mobile bkt; FT-1500M ...Δ	2.99
YSK-90 Remote separation kit; FT-90R .....Δ	64.99
YSK-7100 Rem separation kit; FT-7100M ...Δ	69.99
YSK-8100 Rem separation kit; FT-8100R ...Δ	69.99
FT-1802M 50w 2m FM Xcvr w/WX	Call/Web
ADMS-1802 Windows programming software	39.99

Yaesu - continued

	AES Price
MLS-100 Mobile speaker	49.99
FT-2800M 65w 2m FM Xcvr w/WX alert	Call/Web
ADMS-2J Windows programming software .	39.99
MLS-100 Mobile speaker	49.99
S-8002051/MMB-83 Extra mobile bracket .	4.99
S-8101436 Extra DC cable	7.99
FP-1023 23A switching ps w/fan, 25A surge	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
HRI-100 WIRES II interface box	149.99
LF-1 Mobile 13A DC noise filter	29.99
MLS-100 Mobile speaker	49.99
VXR-7000VA/Vertex 50w 2m FM AC/DC rptr	1269.99
VX VPL-1 Repeater programming cables ...	87.99
Repeaters require service dept set-up; $45 minimum	

Accs for FT-23/33/73/411/811/470/911

CSC-24S Soft case; FT-23/33/73 w/FNB-12S ..D	$ .09
CSC-35 Soft case; FT-411/811/911/FNB-17 ..D	.09
FBA-17 AA battery holder .....Δ	19.99
FNB-12S 12v 600mah 5w battery .....Δ	59.99
FNB-17 7.2v 600mah battery .....Δ	39.99
CLIP-10 Spring loaded belt clip; FT-50 .....Δ	4.99
CSC-68 Soft case; FT-50//FNB-41/FBA-15 .Δ	14.99
CSC-V10 Cordura soft case; FT-10/40/50 ...Δ	19.99
FBA-15 4-AA battery holder; FT-50RD .....Δ	19.99
FBA-21 6-AA battery holder; FT-50RD .....Δ	39.99
FNB-41 9.6v 600mah 5w battery; FT-50RD Δ	59.99
FNB-V47 7.2v 1100mah battw/belt clip; FT-50 Δ	49.99
PA-17 Battery cable extender; FT-50RD ..Δ	4.99
LCC-10S Leather case/swivel; 50//FNB41/V47 ...Δ	24.99
NC-50 1-hour dual slot charger; FT-50RD ..D	69.99
CA-14 2 charging sleeves; NC-50 .....D	19.99
NC-60B Wall charger for FT-10/50 .....D	16.99
CA-15 Charging stand; NC-60B; FT-10/50 D	19.99
YHA-54 2m/440 duck antenna .....Δ	14.99
FT-60R 5w 2m/440 FM HT	189.99
ADMS-1J Windows programming software .	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
VAC-370 Rapid charger	79.99
VC-25 VOX headset	69.99
VX-150 5w 2m FM HT/16-key TTP	Call/Web
ADMS-1F Windows programming software .	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-V57 7.2v 1100mah battery	49.99
FNB-64 Extra 7.2v 700mah battery	36.99
LCC-150/TT Leather case	29.99
LCC-150S/TT Leather case w/swivel	36.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
NC-72B Extra wall charger	19.99
VAC-400B 1-hour desk top rapid charger ..	69.99
VC-25 VOX headset	69.99
VX-170 5w 2m FM HT/16-key TTP	139.99
VX-177 5w 440 FM HT/16-key TTP	149.99
ADMS-VX170 Windows prog software; VX-170	39.99
ADMS-VX177 Windows prog software; VX-177	39.99
CD-26 Charger cradle	30.99
CMP-460A Waterproof speaker/mic	69.99

Yaesu - continued

	AES Price
CN-3 BNC to SMA adapter	11.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	65.99
MH-57A4B Speaker/mic	30.99
VAC-370 Rapid charger	79.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
ADMS-1E Windows prog software; VX-5R .....Δ	39.99
CSC-71 Soft case for VX-1R .....Δ	2.99
CSC-73 Soft case for VX-5R .....D	14.99
FBA-20 Battery holder for VX-1R .....Δ	19.99
FNB-52LI 3.6v 700mah lith ion batt; VX-1R Δ	39.99
NC-66B Extra 2 hour wall charger; VX-1R ..D	19.99
Q-3000166 Replacement duck ant for VX-5R Δ	30.99
VX-2R 1.5w 2m/1w 440 submini HT/lith ion	174.99
ADMS-1H Windows programming software	39.99
CN-3 BNC to SMA adapter	11.99
CSC-90 Soft case	19.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-21 DC adapter	42.99
FNB-82LI Extra 3.7v 1000mah lith ion batt	38.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	40.99
VC-25 VOX headset	69.99
VX-6R 5w 2m/440/1.5w 220 FM HT	249.99
ADMS-VX6 Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-91 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
NC-72B Extra wall charger	19.99
SU-1 Altitude/barometric pressure sensor ...	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-7R Silver 5w 6m/2m/440/300mw 220 FM HT	Call/Web
VX-7RB Black 5w 6m/2m/440/300mw 220 FM HT	Call/Web
ADMS-1G Windows programming software	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CMP-460A Waterproof speaker/mic	69.99
CN-3 BNC to SMA adapter	11.99
CSC-88 Soft case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
NC-72B Extra wall charger	24.99
Q-3000185 Replacement duck ant	29.99
SU-1 Altitude/barometric pressure sensor ...	39.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99

ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire	$259.99
G-550 12 sq ft elevation rotor/6-wire	299.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	429.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	519.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1139.99
Note: G-2800DXA comes w/40m (131') of rotor cable	
G-5500 11 sq ft azimuth/elevation rotor//2x6-wire	629.99

Yaesu - continued

	AES Price
GA-3000 Tower absorber joint; G-1000/2800 Δ	119.99
GC-038 Mast clamp; G-450/800/1000/5500	39.99
GC-048 Mast clamp; G-2800	49.99
GL-33 Mast adjustment plate	18.99
GS-050 50mm thrust bearing; mast 1¼-2"	39.99
GS-065 65mm thrust bearing; mast 1½-2½"	54.99
GS-232B Computer interface; DXA rotors	589.99
C-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	109.99
Sep Kit Separation kit for G5500	29.99

See BELDEN for rotor cable

CONSUMER ELECTRONICS

VXA-710 Spirit 5w air handheld	$399.99
FNB-53 Nicad battery pack; Yaesu FRS Δ	.19

CLOSE-OUTS

ALP Delta-4/N 1.3 GHz 4-pos N switch/protector	$ 89.99
ALP DX-40/20 40/20m 40' low profile dipole ant	89.99
ALP Pathfinder 1.8-30+6m dig auto ant tuner	199.99
AOR ARD-9000 Digital SSB interface	299.99
AOR AR-3000AB .1-2036MHz dlx w/SB/cell blkd	999.99
AOR LA-350 3-30MHz active loop antenna	299.99
AOR SDU-5500 Spectrum disp unit/PC interfc	849.99
ASR RS-35A/220V 220v 25A ps, 35A surge	149.99
BEN BY-3 lambic keyer paddle, gold plated	299.99
BUS 26-3150 Night Vision 3.1x50 binocular	369.99
BUS 78-0040 90mm refractor telescope	329.99
BUS 78-0200 4.5" reflector telescope	249.99
BUS 78-2010 4.5" reflector telescope	129.99
BUT 30-MRK 30m resonator for HF-2V	99.99
CEL 21086 FirstScope 80EQ refractor telescope	189.99
CEL 31044 FirstScope 114 4.5" reflector telescope	169.99
CEL 31056 C-6N reflector telescope	329.99
CEL 52211 60mm wildlife zoom spot scope/tripod	119.99
CEL 93497 Standard tripod	79.99
DIA MG-200 2.4GHz 7db 23.6" N mobile ant	99.99
DIA MX-324D 2m/220/440 triplexer, no cables	84.99
DRA 1590 35-55/108-174MHz convert; R8B	219.99
GAR 010-10468-00 MapSource MetroGuide CD	79.99
GAR cfQue-1620 GPS module for Pocket PC's	189.99
GAR Geko-101 Small GPS receiver	84.99
GAR GPS-12XL GPS receiver	169.99
GAR GPS-V Deluxe Turn-by-turn navigation GPS	269.99
GAR iQue-3600 Handheld PDA/integrated GPS	419.99
GAR iQue-M5 Pocket PC integrated w/GPS	599.99
GAR StreetPilot 2610 Deluxe GPS	599.99

Close-Outs - continued

	AES Price
GRU E-10 Portable AM/FM/SW receiver w/ps	129.99
GRU G-2000A Porsche design AM/FM/SW Rcvr	69.99
GRU Yacht Boy 550 Port AM/FM/SW Rcvr w/ps	79.99
HEI HM-10-4 Mic with HC-4 element	80.99
HEI HM-10-5 Mic with HC-5 element	80.99
HEI PR-780 Dynamic cardiod studio mic	299.99
ICO BC-119-N11 Nicad/NiMH desk cgr(use adapt)	89.99
ICO BC-119-N21 Nicad/NiMH desk cgr; T81A	99.99
ICO BP-172 4.8v 950mah battery	91.99
ICO BP-173 9.6v 600mah battery	119.99
ICO BP-180 7.2v 600mah battery	83.99
ICO BP-200L 9.6v 760mah NiMH batt; T81A	79.99
ICO IC-M402W02 White waterproof 25w VHF marine	149.99
ICO IC-T7H 6w 2m/440 FM HT	199.99
ICO IC-V8 5.5w 2m FM HT/battery/charger	119.99
ICO IC-W32A 5w 2m/440 FM HT	289.99
JRP 317275 XS3 synth FM pistol/1-Z590W1-Z270 75M	149.99
KAN KAM 98 Sgl port multi-mode dig controller	349.99
KEN AT-50 External HF auto tuner	329.99
KEN DFK-7 Dlx 22' rem cable kit; 642/742AD	89.99
KEN PB-34 9.6v 600mah 5w batt; TH-22ATH	79.99
KEN PS-52 Heavy duty ps; TS-870S	249.99
KEN SP-31 External speaker; TS-870S	99.99
KEN SP-950 Ext spkr/audio filters; TS-950SDX	149.99
KEN UT-50S 50w 6m unit; 642/742AD	329.99
KEN YK-107C 500 Hz CW filter; TS-50S	129.99
KOS QZ/2000 Active noise reduction stereoph	129.99
LAC WS-2010 Pro wireless weather station	299.99
LAR KG-220-UD-PL 220 3 db on glass ant	79.99
LOS A0014 XXX-4 4WD electric Competition buggy kit	169.99
LOS A0090 XXX-T Sport RTR w/XR2i electric car	169.99
MAG SporTrak GPS receiver w/1MB memory	99.99
MAG SporTrak Color Handheld color GPS/9MB	269.99
MEA 20211 NGC-70SP 70mm refractor telescope	149.99
MFJ 498 Dlx CW keyboard/kyr w/disp/keyboard	109.99
MFJ 974 3.5-30MHz balanced line ant tuner	139.99
MFJ 974H 1.8-30MHz balanced line ant tuner	149.99
MFJ 991 150w automatic antenna tuner	159.99
MFJ 994 600w automatic antenna tuner	269.99
MID GXT-500VP4 22ch 5w GMRS/FRS hh/batts .pair	89.99
MIR KP-1/10M 10m in shack preamp	79.99
MIR KP-2/10M 10m mast mount preamp	79.99
MSQ 2M5-440XP 2m/440 9/12db 5/10el 5'8" bm	169.99
MSQ 15M-4DX 15m 8.5db 4el 33' 8" bm beam	449.99
MSQ 440-470-5W 440-470 7.8db 5el beam	109.99
NOO NODS-5 5x48 night vision scope w/illumin	169.99

Close-Outs - continued

	AES Price
NOO NONW24-BPHT 2.4x night vision/illumin	99.99
NOO NOXG-2 3x G2 night vision scope w/illumin	799.99
ORE WMR-112A Wireless weather station	129.99
SGC 55-50 QMS-37 Quik mt sys/SG237, less whip	499.99
SON ICF-SW40 AM/FM/SW portable receiver	89.99
TRX 2410 Bandit RTR electric buggy w/TQ radio	79.99
TRX 3606 Stampede RTR electric monster truck/ESC	99.99
TRX 3706 Rustler RTR electric stadium truck/ESC	99.99
TRX 3710 Rustler RTR electric stadium truck/TQ Tx	79.99
TRX 3906 E-Maxx RTR electric monster truck	269.99
UNI BC-244CLT 30 ch scanner w/instant WX	89.99
UNI BC-248CLT 50 ch scanner w/WX alert	99.99
UNI BC-278CLT 100ch scan/800/SAME WXalert	119.99
UNI BC-796D 1000 ch pock/tnk/SAME WX/dig	499.99
UNI BCI-25D Digital board; BC-785D/250D	149.99
UNI Polaris 25w VHF marine Xcvr w/hailer	119.99
UNI SC-180B 100 ch sport pocket/800 MHz	129.99
UNI SC-200 200 ch sport pocket/800 MHz	149.99
VAL AB-5 75/40/20/15/10m mobile antenna	89.99
VEC VC-300D 300w digital antenna tuner	139.99
WEL WST2 Pyropen Jr. portable butane iron	79.99
YAE DVS-2 Digital voice module; Mk V/Field	239.99
YAE FC-10 External coax fed auto tuner	429.99
YAE FC-20 Automatic antenna tuner; FT-847	269.99
YAE FC-800 External long wire auto tuner	469.99
YAE FH-1 Remote control keypad; Mk V/Field	94.99
YAE FIF-232C RS-232 interface;FRG100B/FT840	99.99
YAE FRG-100B .1-30 MHz shortwave receiver	499.99
YAE GA-3000 Twr absorber joint; G-1000/2800	119.99
YAE LL-7 Phone patch unit for SP-8	149.99
YAE SP-8 External speaker w/filters; Mk V/Field	174.99
YAE TCXO-4 TCXO unit; FRG-100B/FT-840	109.99
YAE TCXO-6 Deluxe TCXO unit, Mk V/Field	189.99
YAE TCXO-7 TCXO unit; FT-920	99.99
YAE XF-117A 6 KHz AM filter; FT-100D	129.99
YAE YF-110CN 250Hz CW filt;FRGMkV&Field	159.99
YAE YF-110SN 2KHz SSB filter; Mk V/Field	159.99
YAE YF-112A 6 KHz AM filter; FT-840	129.99
YAE YF-112C 500 Hz CW filter; FT-840	129.99
YAE YF-114CN 250Hz CW filter; Mk V/Field	159.99
YAE YF-114SN 2KHz SSB filter; Mk V/Field	159.99
YAE YF-115C 500Hz CW Collins filt;FRGMkV&Field	169.99
YAE YF-115S-02 2.5KHz Collins SSB filt;FT847	169.99
YAE YF-116A 6 KHz AM filter; FT-920	119.99
YAE YF-116C 500 Hz CW filter; FT-920	119.99
YAE YSK-100 Separation kit for FT-100D	99.99

PLAN TO ATTEND

AES Amateur Electronic Supply

SUPERFEST 2007

Our 50th Anniversary Celebration

Friday, March 30th (2:00 to 7:00 p.m.) • Saturday, March 31st (8:30 a.m. to 3:00 p.m.)
5710 West Good Hope Road, Milwaukee WI

- FREE ADMISSION
- The Major Ham Manufacturers with Displays & Demos
- Informational Forums
- Gordon West & other Guest Speakers
- Area Clubs & Organizations
- Prize Drawings
- VE Testing
- Fox Hunt (with Prizes)
- Specials & Coupons
- FREE Popcorn & Soda
- Food for Purchase (Boy Scouts)
- Plenty of Parking
- More!

For more information contact Ray Grenier, K9KHW
(414-375-1162 or rayk9khw@aol.com)

LOADS OF FUN!

Get Ready For The

ORLANDO HamCation℠

Amateur Radio & Computer Show

2007

February 9, 10 & 11

At The Central Florida Fairgrounds
4603 West Colonial Drive Orlando, Florida 32808
Fri. 12 noon to 7 pm (Tailgate, Swaps & Commercial 2 only)
Sat. 9 am to 6 pm Sun. 9 am to 2 pm

Kick off the year 2007 in Orlando, at one of the great hamfests. See the latest equipment. Shop for swap table deals. Find bargains at the largest tail-gating area in the Southeast.

There are transceivers, mobile rigs, HT's, amps, antennas, call-letter hats, wire, parts, T-shirts, eye-ball QSO's, QSL cards, forums, food, computers, sun and fun. You'll think it's ham heaven.

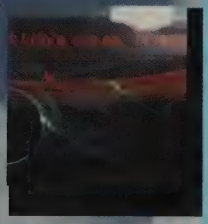
Home of some of the best known theme parks on earth, Orlando has all you need to round out your visit. It will be a great vacation for you and the family. Make your plans now for the **2007 Orlando HamCation℠**.

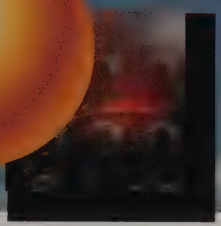
Advance tickets: $8.00 Tickets at the gate: $10.00

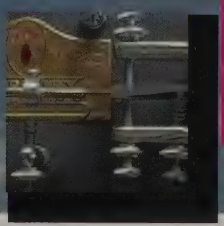
For current information please visit our web site at **www.hamcation.com** or call **407-814-0434**.

You can e-mail us at: **hamcation@oarc.org**

Or write us at: **HamCation℠**
P.O. Box 547811
Orlando, FL 32854-7811







- Special Guest Speakers
- 150 Commercial Exhibits
- Over 400 Swap Tables
- Largest Tailgate Area In Florida
- Florida Weak Signal Society Activity report
- Testing On Saturday
- Free Parking
- RV Camping On Premises ($22 per night)
- Fox Hunt (4 pm Saturday)
- Guest Friendly Central Florida Atmosphere
- Theme Parks Nearby
- Courtesy Talk-In On 146.76 (Backup Talk-In On 147.015)

DEMO GEAR

- Fully Serviced Tested New Demonstrator or Display Equipment
- Repacked in Original Cartons
- Manufacturer's Warranty

NOTE: there may be instant coupons that apply to Demo Gear which are not reflected in the displayed price. Coupons will be applied to your final total. Please ask your salesperson for coupon availability. Used Gear policies do not apply to Demo Gear.

USED GEAR

- Fully Service Tested Trade-ins
- 10-day Trial (pay only shipping charge)
- 30 Day Guarantee
- Full Trade-in Credit within 90-days on Higher-Priced New Equipment

DEMO & USED lists are updated regularly on our website:

www.aesham.com

Location Codes: (m) Milwaukee 1-800-558-0411 • (c) Cleveland 1-800-321-3594 • (f) Orlando 1-800-327-1917 • (v) Las Vegas 1-800-634-6227

ADI
AR447 440 XCVR 179.99m

AIM
38384 4A POWER SUPPLY 35.99c

ALINCO
DJC7T 2M/70CM HT 149.99v
DJS11T 340MW 2M HT 69.99f
DJV5TH 2M/70CM HT 189.99mf
DJX2T WIDEBAND RCVR 149.99m
DJX7T WIDEBAND HANDHELD RX 149.99c
DJ496T 440 HT 134.99m
DR605TQ 2M/440 XCVR/EJ24 299.99f
DX70TH HF COMPACT XCVR 674.99f
DX77T HF XCVR 629.99f
EBP35N BATT 69.99c
EBP36N BATT 59.99v
EDC43 CIG LTR CABLE 7.99c
EDC88 CHARGER 54.99m
EJ40U DIG BRD;ORIG 135SER 69.99v
EME13 HEADSET 54.99m
EMS49 SPKR MIC 29.99c
EMS51 HEADSET 34.99m
EMS57 DTMF MIC/8 PIN 49.99v
ESC18 CASE 9.99m

ALPHA DELTA
DELTA-2 500MHZ 2POS SWITCH 44.99v
PATHFINDER ANTENNA TUNER 179.99mv
PATHMINDER COAX SWITCH 129.99m

AMECO
HP300T HIGH PASS FILTER 8.99v

AMERITRON
ALS500RC REMOTE HEAD 44.99m
PNP7D KNWD CABLE 14.99c
PNP8MK TS480 CABLE 14.99c
RCS8VX REMOTE SWITCH/2 119.99m

ANTENEX
ABSCANC SCANNER ANT/NMO 26.99v
LBMB9034 MIRROR MOUNT 8.99v
TRAB1420 VHF WHIPLESS ANT 53.99v

AOR
AR16B RCVR 149.99v
AR3000A RCVR 899.99m
AR3000A RCVR/NO ANTENNA 849.99m
AR8200B RCVR 399.99c
LA380 LOOP ANTENNA 339.99m
SDU5500 SPECTRUM SCOPE 769.99mcv
SDU5600 SPECTRUM SCOPE 1,169.99m
TDF370 DSP UNIT 239.99m

ARRL
242 OPERATING MANUAL CD 29.99v
9132 OPERATING BOOK 19.99v

ASTRON
RS10A 7.5A POWER SUPPLY 62.99c
RS20A 16A POWER SUPPLY 89.99v
RS7A 7 AMP POWER SUPPLY 53.99cv

AVMAP
G4T GPS/MAPPING 764.99m

B&W
AS40 40-10 TRAP DIPOLE 139.99c
BWD45 45' FOLDED DIPOLE 179.99v

BENCHER
ST1 PADDLE/SINGLE LEVER 94.99m
YA1 LOW PASS FILTER 77.99c

BUSHNELL
780103 ERECTING PRISM 39.99m
782010 SPOTTING SCOPE 79.99m
782010 TELESCOPE 119.99m

CELESTRON
10110 10" DOBSONIAN TELES 399.99m
11033 NEXSTAR 5I TELESCOPE 799.99m
4020 DISSECTING MICROSCOPE 49.99m

COBRA
HHROADTRIP HH CB/MAG ANT 69.99mv
PR3000-2 GMRS/FRS HT (PAIR) 59.99v

COMM OUTFITTERS
EXP1 EXPEDITION PACK 84.99v

COMET
CFX514J HF/2M/440 TRIPLEXE 67.99v
CK5N "N" MOUNT 39.99m
GR5M TNK LIP W/COAX 59.99m
HS05 18" SMA-SO239 CABLE 12.99m
SBB1NMO 2M/440 16" ANTENNA 38.99v
SB14 6M/2M/440 43" CHROME 59.99v

CSS
PACTERM FOR WINDOWS (KAN) 89.99v

CUSHCRAFT
A2706S 2M/70CM BEAM 80.99m
A743 40/30 KIT 159.99m
PD4 2M POWER DIVIDER 76.99c
X740 40M KIT/X7 287.99v

DAVIS
6312 WIRELESS CONSOLE 179.99m
6510USB WEATHERLINK 99.99m
7400 INDOOR WX STATION 119.99v
7654 SOLAR REPEATER 149.99m
7852 RAIN COLLECTOR 62.99c
7862 WXLINK INTRFCE/SOFT 134.99mv

DCI
44510C UHF FILTER 107.99v

DIAMOND
D220 DISCONE ANTENNA 89.99c
F23A 2M 15' BASE ANTENNA 107.99v
K412CNMO MOUNT 54.99m
K601NMO NMO MOUNT 59.99m
MX72N DUPLEXER 44.99c
SG7900ANMO 2M/440 62" NMO 99.99fv
SPMNMO MAG MOUNT 39.99v
SPM35 MAGNETIC MOUNT 34.99m

DYNAMITE
1145 BATTERY PACK 8.99m
4010 BATTERY CHARGER 9.99m

ECG
U105 LIGHT DUTY ROTATOR 62.99c

ESP
ESP1 MIC AUDIO PROCESSOR 199.99m

GARMIN
ETREX VISTA C 199.99m
0101014100 CABLE 34.99m

GROTHE
GROTHE VS4 P/A SYSTEM 124.99m

GRUNDIG
E10 SWL RCVR 114.99mc
E100 SWL RCVR 89.99m
G2000A RCVR 59.99m
S350DL BLK AM/FM/SW RX 89.99v
S350DL RCVR/HEADPHONES 89.99c
E5 AM/FM/SW RCVR 134.99c

HEIL
BM55 MIC/HEADSET/HC5 ELEM 62.99v
CC1T CABLE FOR TEN-TEC 27.99v
HCL5 CLASSIC MIC 199.99m
HMPRO MIC 69.99mc
HQP NOISE CANX PHONES 89.99c
ICM MIC/ICOM 84.99m
PL2T TOPLESS BOOM 79.99m
TB1 TABLE BASE MIC STAND 22.99v
TRAVELER18 HEADSET 79.99m

HIGH SIERRA
TRIPOD DELUXE 99.99c

HOBBYZONE
4505 OUTLAW RC PLANE 19.99c

HUSTLER
BBGT144 2M TRUNK MT 44.99m
G7144 2M ANTENNA 149.99m
G71504 2M ANTENNA 179.99m
MX270 ANT 49.99m
SCB-S SUPER CB ANT 24.99m
SCB/BLK CB ANTENNA/BLACK 24.99m

HYGAIN
AV18AVQ ANTENNA/BAD 10M C174.99m

ICOM
AD56 CHARGE ADAPTER 12.99v
AH2B WHIP W/MOUNT 314.99f
BC119(31) NICAD DESK CHGR 79.99c
BC119N11/AD51 CHGR 79.99c
BC119N21 CHARGER 79.99m
BC127A CHARGER 1.99m
BC144(01) CHARGER 44.99mv
BP157 BATTERY 59.99c
BP173 BATTERY 89.99m
BP198 BATTERY 49.99m
BP211 BATTERY 69.99mc
BP211N BATTERY 69.99c
CP12L RT ANGLE CIG CABLE 33.99v
CP17L CIG ADAPTER 19.99m
CP18A CIG DC CABLE 27.99c
CP19R CIG CORD 39.99m
CSWHHRX SOFTWARE 8.99c
CSWHH4 SOFTWARE/CABLE 44.99m
HM158L SPEAKER MICROPHONE 38.99m
HM46 SPEAKER MICROPHONE 39.99c
HM92A HAND MICROPHONE 89.99m
HS10SA HEADSET 44.99m
HS85 HEADSET/VOX 79.99mv
ICM402W02 MARINE XCVR 134.99m
ICP7A 2M/440 1.5W HT 214.99c
ICT22A/42A SERVICE MANUAL 14.99v
ICV8 2M HANDHELD 104.99m
ICV82 2M HANDHELD 114.99m
ICW32A INSTRUCTION MANUAL 14.99v
IC208H 2M/70CM XCVR 299.99m
IC4088A FRS HANDHELD 69.99m
IC703PLUS QRP XCVR/TUNER 629.99c
LC128 CASE 34.99cv
LC137 CASE 34.99cv
MB17A QWIK RLS BRACKET 44.99c
MB62 BRACKET 22.99m
MB65 BRACKET 29.99m
MB85 BRACKET 22.99m
OPC254L RT ANGLE DC CBL 12.99v
OPC598 CABLE/AT180 65.99v
PS85 POWER SUPPLY 199.99m
RSR75 SOFTWARE/R75 69.99m
R5(06) RCVR 179.99mv
SM6 DESK MICROPHONE 89.99mv

INTERNATIONAL ANTENNA
160M HALF-SLOPER ANTENNA 69.99m
160M BAZOOKA ANTENNA 149.99v

KANTRONICS
KAM98 TNC 299.99fv

KENWOOD
BC19 RAPID CHARGER 58.99c
HMC3 VOX/HEADSET 44.99m
MC47 MICROPHONE 53.99c
MC58DM MICROPHONE 71.99v
MJ88 MOD/8-PIN ADAPTER 29.99c
PB33 BATTERY 79.99v
PB39 9.6V 600MAH BATTERY 46.99mv
PG3E CIGARETTE POWER CORD 6.99m
PG5A PACKET CABLE 12.99m
SMC34 SPKR/MICROPHONE 28.99v
TC50 TRAVEL CASE 59.99m
THK2AT 5W 2M HT 124.99c
TMD700A 2M/70CM XCVR 459.99m
TS480SAT HF/6M XCVR 1,079.99c
TS570S(G) HF/6M XCVR 1,019.99v
UBC4 DESK CHARGER/UPB1 4.99v

LACROSSE
WS3610CH WEATHER CENTER 249.99m
WS7038UF WIRELESS RAIN GA 53.99v
WS8015U THERMOMETER 129.99m

LARSEN
KG144UDPL 2M GLASS MT 69.99mc
NMOTLP TRUNK LIP MOUNT 26.99v
NMO150TLM 2M ANT/TRNK MT 49.99v
NMO2/70B 2M/440 ANT; NO M 62.99v
NMO2/70C 10M ANT ONLY; NO 58.99v
POK LARSEN ROOF MT/UHF-F 27.99v

LDG
ALIC1 10' INTERFACE CABLE 17.99c
AT1000 1000W AUTOTUNER 495.99f
AT200PRO AUTO TUNER 206.99c
ICOMIC2 8" INTERFACE CABLE 7.99c
RT11 160-6M AUTO TUNER 179.99c
TW1 TALKING WATTMETER 134.99m

LIGHTWAVE
LWHT HEADBAND LIGHT 35.99v
LW3000 FLASHLIGHT 44.99v

MAHA
MHBP180 BATTERY 44.99m
MHC888 CHARGER 53.99v
MHSC803 ADAPTER/MHC888 6.99m

MALDOL
HMC6S HF MOBILE ANTENNA 143.99c
HMC7C 40 METER COIL 31.99c

MAXON
FRS114 FRS HT 39.99c
GMRS21X GMRS/FRS HT 69.99c
MX49FX 49 MHZ XCVR 14.99m
MX49SX 49MHZ XCVR 19.99m

MFJ
1020C .3-30 ACTIVE SWL ANT 71.99v
1026 DLX NOISE CANX UNIT 149.99m
1040B RCVR PRESELECTOR 89.99v
118 24/12 CLOCK 22.99cv
1214PC INTERFACE; IBM 124.99mcv
1224 INTERFACE 89.99m
1263 RIG/MIC SWITCH 89.99m
1272B TNC/MIC INTERFACE 32.99c
1272MYH TNC/MIC SW 35.99v
1279M SOUND CARD INTERFACE 115.99v
128 CLOCK 49.99m
1312D AC ADAPTER 13.99c
1621 PORTABLE ANTENNA 79.99m
1701 6-POSITON COAX SWITCH 53.99v
1778 G5RV 160-10M ANTENNA 35.99v
1786 10-30MHZ LOOP ANTENNA 299.99m
20 BCKT/945E/NO HARDWARE 3.99m

This a Used and Demo inventory as of August 29, 2006 - Updates are available at www.aesham.com or call your nearest AES store – *Toll Free!*

DEMO GEAR

MFJ
204B ANTENNA BRIDGE 69.99m
206 ANTENNA CURRENT PROBE 69.99m
249B SWR ANALYZER 197.99c
250X DUMMY LOAD 35.99c
382 AMPLIFIED SPEAKER 35.99c
4110 PORTABLE POWER SUPPLY 44.99m
4114 POWERPACK 59.99m
4125 25 AMP POWER SUPPLY 98.99c
4245MV 45 AMP PWR SUPPLY 179.99c
44 SCOPE TUNE 13.99c
451 MORSE KEYBOARD 89.99v
452 CW KEYBOARD UNIT 119.99mfv
462B MULTI-READER 149.99v
464 MORSE READER/KEYER 161.99c
490 PADDLE/KEYER 179.99fv
495 MILLENNIUM MEM KEYER 149.99f
498X CW KEYER 134.99m
5022X HT TO PK232 CABLE 12.99m
5063 TNC CABLE ICO 17.99c
5084 TNC-ICOM 8 PIN CABLE 13.99mc
5086YH KAM HF KEN 8P CABLE 12.99v
5124K KENWOOD INTERFACE 53.99f
5383Y YAESU INTERFACE CBL 35.99v
5397MY MICROPHONE CABLE 13.99m
564B BLACK IAMBIC PADDLE 53.99c
616 SPEECH ENHANCER 159.99f
641I3 CHARGER 29.99m
641K CHARGER 29.99cv
784B TUNABLE DSP FILTER 206.99c
801 FIELD STRENGTH METER 17.99c
802X FIELD STRENGTH METER 53.99c
888 FREQUENCY COUNTER 169.99m
901B 200W ANTENNA TUNER 79.99f
924 440MHZ ANTENNA TUNER 62.99v
931 ARTIFICIAL GROUND 80.99c
941E 300W TUNER/BALUN 98.99c
948 300W TUNER 99.99v
989D DELUXE ANTENNA TUNER 299.99f
991 150W AUTO ANT TUNER 143.99f

MIDLAND
22430 HEADSET 29.99m
74200 WEATHER RADIO 44.99m
74250C WEATHER RADIO 44.99mc
75510 FRS HANDHELD 29.99c

MIRACLE ATTENNA
DUCKER IL HF HH RX TUNER 116.99c

MIRAGE
BD25 AMPLIFIER 144.99m
B215G 150W 2M 239.99m
B2516G AMP 239.99m
C211G 220 AMP/PRE 299.99v
C2512G 220 VHF AMP 279.99f
D15N AMP/430 149.99m
MP3 420-450MHZ WATTMETER 169.99m

M-SQUARED
2M5440XP DUAL BAND YAGI 154.99c

NCS
LOZ8PII CABLE 21.99m
LOZ8PIY CABLE 21.99m
NCS-LOZ8PI-K CABLE 21.99v
NCS-3240 MULTISWITCHER 269.99v

OREGON SCIENTIFIC
WMR112A WIRELESS WX STATION 119.99v
WR196T AM/FM/WX CLOCK RADIO 34.99m

PALOMAR
SMARTBRIDGE SOFTWARE 4.99v

POLYPHASER
IS50NXC2 125-1000 N F 55.99v
PLDO120US20A SURGE PROTECT 179.99m

RCA
ANT1020 INDOOR TV ANTENNA 17.99c
RP3710 AM/FM CLOCK RADIO 17.99c
TA25 TV DISTRIBUTION AMP 17.99m

SANGEAN
ATS505 RCVR 115.99c

SGC
0401 SG2000 HF TRANCEIVER 999.99f
0401 SG2000 XCVR 949.99m
5219 SPEAKER 49.99m
5417 SG-231 SMARTUNER 449.99v
5422 SG239 TUNER 159.99c
5425 MAC-200 TUNER 224.99m

SHAKESPEARE
495 MARINE ANT MOUNT .99v

SMILEY
SSIII 220MHZ 5/8 SUPER STICK 17.99v
270A 2M/440 TELESCOPIC WHIP 17.99v

SONY
ICFSW07 SWL RCVR 359.99m
ICFSW30 SWL RCVR 69.99c
ICFSW35 SWL RCVR 79.99m
ICFSW40 SWL RCVR 79.99m
ICFSW7600GR SWL RCVR 144.99m

TERK
HDTV1 INDOOR HDTV ANTENNA 35.99c
MOD41 RF MODULATOR 34.99m
TV50 AMPLIFIED TV ANTENNA 59.99v

TESTORS
800002 RC AUDI TT COUPE 9.99c

TIMEWAVE
WEFAX256 PROGRAM 69.99v

TRAXXAS
2410 R/C BUGGY 69.99m

UNIDEN
BCT7 SCANNER 129.99c
BC147XLT SCANNER 79.99c
BC244CLT SCANNER 79.99mc
BC245XLT SCANNER 149.99cf
BC250D SCANNER 199.99c
BC796D 1000CH SCN/TNK 449.99v
BC92XLT SCANNER 99.99m
PC68LTW MOBILE CB 69.99cv
PRO510XL CB XCVR 34.99m
SC150B SCANNER 99.99c
SC180B SCANNER 114.99mc

VALOR
MM3401B MOUNT 49.99m

VAN GORDEN
G5RV 102' HF ANTENNA 54.99v

VANCO
AC210 10' RCA CORD 1.99m
370052 DIGITAL MULTIMETER 17.99c

VECTRONICS
LP30 LOW PASS FILTER 62.99v
VC300DLP 300W ANT TUNER 134.99mc

VIBROPLEX
123 IAMBIC GOLD PADDLE 249.99m

WELLER
WESD51 SOLDER STATION 134.99m

WEST MOUNTAIN RADIO
RB/PL/C RBLST PLUS 116.99c
RT1 RIG TALK 44.99m

WILSON
FGT3/BLK 3' CB WHIP 23.99c
TRUCKER 2000 49.99m
W1000 CB MAG MT ANTENNA 69.99m

W4RT
ANTENNA BOSS II INTERFACE 134.99mv
OBP/STD YAESU COMPRESSOR 44.99m

W5YI
GW05 CODE TAPES 26.99m
WMC MORSE CODE SOFTWARE 12.99m

X-10
X10 SP554A WIRELESS MOT DET 9.99v

YAESU
ADMS1H SOFTWARE 34.99m
ADMS2G PROG SOFTWARE 26.99cv
ATAS25 40/20/15/10/6/2/430 224.99c
CA34 CHG SLEEVE FOR VR120 4.99c
CSCV10 CASE 17.99v
CSC69 FOR FNB40 9.99m
CSC91 SOFT CASE FOR VX6R 12.99v
FBA23 BATTERY CASE 26.99c
FC20 AUTO ANTENNA TUNER 244.99v
FNB41 BATTERY; FT50R 52.99c
FNB79 BATTERY FOR VR120D 7.99c
FNB80LI BATTERY 69.99m
FNB83 BATTERY 54.99m
FP1023 POWER SUPPLY 149.99m
FRG100B .1-30 MHZ RCVR 469.99cv
FT60R 2M/70CM HT 169.99m
FT840 XVCR 539.99m
GC038 MAST CLAMP 35.99c
HRI100 WIRES UNIT 134.99m
MEK2 MIC EXND 29.99m
MH30A2B SPKR/MICROPHONE 24.99m
MH30C2B SPKR MICROPHONE 29.99mc
MH32A2B SPKR/MICROPHONE 19.99m
MH34B4B SPKR/MICROPHONE 34.99m
MH37A4B EARPIECE/MIC 34.99mc
MH57A4B SPEAKER/MIC 27.99c
MH59A8J REMOTE CONTROL 71.99v
NC55B CHARGER 9.99v
NC82 CHARGER STAND 9.99c
PA30B AC ADAPTER 6.99c
SU1 ALTITUDE/BARO SENSOR 32.99m
TCX06 HIGH STABILITY OSC 169.99c
VR120 RCVR 149.99c
VR120D RCVR 179.99c
VR5000 RCVR ALL MODE 539.99v
VXA710 AIR BAND HANDHELD 359.99c
VXR7000VA 2M REPEATER 1,099.99fv
VX150 2M HANDHELD 114.99mf
VX2R 2M/440 COMPACT HT 159.99f
YA007FG ANTENNA 129.99m
YF110CN 250HZ CW FLTR 143.99c
YF114CN 250HZ CW FLTR 143.99c
YF114SN 2KHZ SSB FLTR 143.99c
YF115S02 SSB FILTER/FT847 149.99m

USED GEAR

ALINCO
EDC6 CHARGER 4.99m

AMERITRON
ALS500M 500W MOB HF AMP 549.99f
ALS600S 600W HF AMPS 999.99f
AL572 AMP *4 NEW TUBES* 999.99f

AOR
AR3000A DLX RCVR 499.99m

ASTRON
RS12S POWER SUPPLY 69.99c
RS20A POWER SUPPLY 79.99cf
RS35M 25A POWER SUPPLY 134.99c

BENCHER
YA1 1KW HF LOW PASS FILTER 49.99c

DIAMOND
SX100 SWR METER/HF-6M 99.99v

HEIL
HCLIC CLASSIC STUDIO MIC 149.99f
PROSET5 HEADSET 95.99m

ICOM
AH2A AUTO ANTENNA TUNER 119.99m
AT100 AUTO ANTENNA TUNER 199.99m
AT150 AUTO ANTENNA TUNER 219.99m
AT180 AUTO ANTNNA TUNER 295.99f
IC706MKIIG HF/6M/2M/440 XCVR 759.99m
IC718 HF XCVR/NO DSP 419.99f
IC735 HF XCVR 499.99mf
IC738 HF XCVR 599.99f
IC746PRO HF/6/2 XCVR 1,199.99mc
IC781 HF XCVR 2,499.99m
PS125 25 AMP PWR SUPPLY 199.99m
R7000 25-2000MHZ RCVR 599.99f

KENWOOD
AT230 ANT TUNER 149.99c
MB100 MOBILE MOUNT 19.99c
SP23 SPEAKER 59.99c
TM742A XCVR/220 MODULE 579.99m
TS450S/AT HF XCVR 599.99f
TS480HX 200W HF XCVR 899.99mf
TS570D HF XCVR/ACCESSORIES 729.99c
TS940S/AT HF XCVR 2 FILTERS 939.99c

LDG
AT1000 HF AUTOTUNER 439.99f
FTMETER; FT857/897 34.99f
Z11 QRP 30W AUTOTUNER 134.99m

MFJ
916 2M/440 DUPLEXER 23.99c
945E ANTENNA TUNER 84.99f

NCG
MH900PK EARPHONE/MIC 9.99c

PALSTAR
AA30A ACTIVE ANTENNA 69.99m
R30 RCVR W/ NARROW FILTER 469.99m

SANGEAN
ATS818CS SW RCVR/TAPE RCDR 169.99m

SGC
0501 SG2020 MINI 20W XCVR 479.99f

UNIDEN
BC796D SCANNER 399.99f

YAESU
CSC29 SOFT CASE .99c
CSC62 SOFT CASE .99c
FBA3 CHARGING SLEEVE 4.99c
FC30 ANTENNA TUNER 99.99m
FC757AT AUTO TUNER 249.99c
FP1025A POWER SUPPLY 99.99m
FT1000 HF XCVR 1,699.99m
FT1000 XCVR/2 FILTERS 1,739.99m
FT1000D HF XCVR 2,499.99f
FT1000D (TOP SCRATCHES) 2,399.99c
FT1000MPMKV XCVR 1,799.99f
FT840 HF XCVR 464.99m
FT890/AT HF XCVR 549.99m
MD100A8X MIC 109.99m
MD200A8X DELUXE BASE MIC 299.99m

8-29-06

AES
Amateur Electronic Supply

We've been Trading since 1957!

Trade & Upgrade

We need your clean SSB & FM Gear!
Sorry, no Handhelds

Call for our Quote

Please use these lists as a Guide

These *Used and Demo Gear* lists are compiled from an actual inventory as of August 29, 2006. Due to daily turnover, the actual items may or may not be available. Please check our website or call any AES store to check availability.

www.aesham.com

Engineered for Extraordinary Value

New DJ-V17T 2m HT

Great audio and high grade water-resistant design!

Five watt full power HT with large 40mm internal speaker, rugged polycarbonate body compatible to IPX7, 500mW max audio-output, two-touch repeater access, over 200 memories, ergonomic design, ultra-flexible antenna with SMA connector, 39 CTCSS settings, split function, two-level attenuator, backlit alphanumeric display and special battery-drain function to help avoid battery memory-effect. Ni-MH standard; also uses optional Lithium-ion and NiMH battery packs or AA dry cell case. Perfect for outdoor activities.

Rugged design resists moisture, dirt and dust!

DJ-C7T 2m+440 "Pocket" HT

Meet the "new generation" mini-HT! Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! ***Extremely versatile dual-band HT.***

DR-635T 2M/440MHz Mobile/Base Transceiver

Full Duplex operation! Cross-band repeat, remote mountable control head, newly designed RF circuitry for increased resistance to interference, plus automatic temperature protection circuit. Alphanumeric changeable color display, 200 memories, H/M/L output, ignition key on/off, theft alarm, extended receive, backlit DTMF mic and more! Optional TNC or digital voice module and remote mount kit available.

DJ-196T (2m), DJ-296T (222 MHz), DJ-496T (440 MHz) HT

Backlit keys, alpha display, autodial, 40 memories, CTCSS and DCS encode+decode, 13.8 VDC input, and more! High-power battery is standard. ***Extra handy!***

DJ-S45T 440 MHz "Micro" HT

Tiny, but tough. Rugged polycarbonate design resists impacts, dust & moisture. Features New Quick Repeater Access Mode, 100 memories; any mix of simplex or repeater channels, CTCSS encode and decode (separately programmable). Computer programmable with optional cable, free software at www.alinco.com.

DJ-V5TH, 2m/440 HT*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. ***Excellent performer!***

DR-135T/TP MKII (2m), DR-435T MKII (440 MHz), DR-235T (222 MHz) Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, ***Extra rugged!*** Accepts optional digital voice communications board.

DJ-596T MKII 2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Expanded receive; optional digital voice communications board and more! ***Extend your abilities!***

DR-620T 2m+440 Mobile/Base

Exceptional features! Remotable head, speaker faces up or down, changeable color alpha display, 200 memories, H/M/L output, V/U, V/V, U/U, WFM and AM Air Extended RX, TCXO, theft alarm, ***options include TNC or digital voice module, remote mount kit.***

DR-M06TH 6m/20 watts FM Mobile/Base

"Magic band" Excitement with local and DX FM contacts, simplex or through repeaters. ***Includes CTCSS encode and 100 memories.***

DX-70TH (100w) HF+6m Mobile/Base/Portable

160~6m Amateur band TX in all modes, Extra coverage RX from 150 KHz~30 MHz and 50~54 MHz. Remotable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more! ***Optional accessories include EDX-2 wire antenna tuner & DM-330MVT power supply.***

DX-77T HF Base/Portable

Excellence at a great price! 160 ~ 10 meter Amateur band TX all modes; 500 KHz ~ 30 MHz general coverage RX. Clean, clear audio, low noise floor from DDS, 100 memories, easy to operate. ***Speech compressor, CTCSS encode for 10m FM operation, CW filter.***

www.ALINCO.com

Distributed in North America by Ham Distributors, 1775 North Loop 336 East, Ste. 8, Conroe, Texas 77301 • Phone: 936-649-1497 • Fax: 936-649-1303 • email: USrep@Hamdistributors.com

Products intended for properly licensed operators. Permits required for MARS use. CAP use subject to equipment approval. Specifications subject to change witout notice or obligation.
Performance specifications only apply to amateur bands. *Cellular blocked in USA. Unblocked versions available to qualified users, documentation required.
NOTICE: Effective 5/1/2004, ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distributors regardless of contact information found on the warranty certificate packed with the product.

Engineered to Exceed your Expectations

DJ-X7T Wide Range Pocket Size Communications Receiver

100KHz to 1.3GHz*

Triple conversion AM/NFM; double conversion WFM, plus FM, SW, and TV

Super small "credit card" size (as thin as 14.5 mm, as light as 103g) delivers AMAZING audio quality! Easy to read illuminated LCD, **1,000 memory channels**, five operating modes, three different antenna modes, easy to program with free downloadable software (optional cable required), cable-clone, and a long-lasting Lithium ion battery! Standard adapter charges the Li-Ion battery AND operates with AC power, even at the same time, so you can listen while charging.

DM-330MVT Communications Grade Switching Power Supply

Alinco's Experts have reinvented the power supply!

Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p. ***Extra versatile, use for travel, station or test bench.***

EDX-2 Automatic Wire Antenna Tuner

Extreme users want to get on the air fast! Ground it, connect a wire and plug it into your rig. Tunes random length wires from 9 ~ 80 feet. Covers 160 ~ 10 meters. (minimum 40 feet of wire needed for use on 160m) Compatible with DX-70 and DX-77 transceivers. Made for indoor/outdoor mounting, use at home, mobile or in the field. Outputs directly to a wire or whip antenna only (no coax output).

DJ-X3TD Multimode Wide Range Communications Receiver

Exceptional and unique! Small but powerful. Receives 100 KHz ~ 1.3 GHz*, AM, NFM, WFM. **700 memory channels**, dry cell battery pack, four scan modes, stereo FM reception.** ***Download free control software from www.alinco.com***

DJ-X2000T Multimode Wide Range "Intelligent" Receiver

Monitoring Excitement is found in the "Intelligent Receiver" from 100 KHz ~ 2150 MHz* with **2000 memories**, alphanumeric labeling, receives AM, WFM, NFM, LSB, USB, CW and FM stereo.** On-line "help" feature, 20 scan programs, computer programmable (download free software from Alinco website), Channel Scope™ display, Transweeper™, RF frequency counter, digital sound recorder, CTCSS decode, 2 level attenuator, field strength meter, ***instant "flash tune" and many Extras!***

www.ALINCO.com

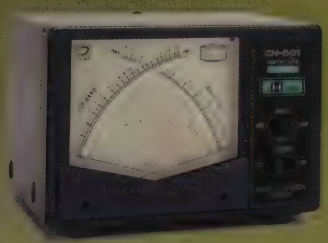
Distributed in North America by Ham Distributors, 1775 North Loop 336 East, Ste. 8, Conroe, Texas 77301 • Phone: 936-649-1497 • Fax: 936-649-1303 • email: USrep@Hamdistributors.com

*Cellular blocked in USA. Unblocked versions available to qualified users, documentation required. **Optional stereo headphones required. Specifications subject to change without notice or obligation.

Accurate Measurements NO EXCUSES.

Professionally Engineered Cross Needle Meters

Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



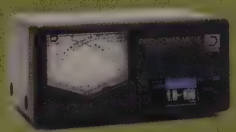
Professional Series

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6"l x 4½"h x 4½"d (approx.)

CN-801HP
PEP Reading SWR/Power Meter
Frequency Range: 1.8-200MHz
Forward Power Ranges: 20/200/2000W

CN-801V
Frequency Range: 140-525MHz
Forward Power Ranges: 20/200W

CN-801S
Frequency Range: 900-2500MHz
Forward Power Ranges: 2/20W



Economy Series

Accurate and dependable bench meters at an economy price. Lighted, 13.8VDC jack on rear panel. 6"l x 3"h x 4"d (approx.)

CN-101
Frequency Range: 1.8-150MHz
Forward Power Ranges: 15/150/1500W

CN-103M
Frequency Ranges: 140-525MHz
Forward Power Ranges: 20/200W

CN-103N (N-Type Conns)

NEW! POWER SUPPLY

SS-330W
Convenient, lightweight 30 amp switching supply.
30 amps continuous
Dual meters
Adjustable voltage (5–15V)
Built-in fan
Weighs less than 5 lbs.
Carrying handle

Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

CS-201
2-Position 600MHz Switch
Max. Power: 2.5kW PEP/1kW CW
Conns: SO-239

CS-201GH
2-Position 2GHz Switch
Max. Power: 1.5kW CW
Conns: Gold plated N-Type

SS-505
Lightweight switching power supply
50 Amp Continuous, 55 AMP peak
Adjustable voltage, 5-15V
Can be used for DC motors requiring peak start-up voltage
Dual-use V/A meter
Built-in fan
Weight: 8lbs 6 oz

NCG COMPANY

(714) 630-4541 ¥ (800) 962-2611
(714) 630-7024 fax
www.natcommgroup.com

ALINCO
AMATEUR RADIO'S VALUE LEADER™

HF RADIOS

DX-77T HF Transceiver – Covers 160-10M with 500 kHz–30 MHz receive in SSB/CW/AM/FM modes. 100W (AM 40W); High/low power settings; 100 multi-function memories; Two VFOs; Direct digital synthesis; Easy split operation mode; Multi-function control; CW narrow filters; Noise blanker; 6–50 WPM electric keyer; Full, semi or auto break-in CW; All mode squelch; Quick offset; Two scan modes; RIT; Selectable AGC; RF gain control (RX); Dial lock; Auto antenna tuner interface; MARS and CAP capability.
Dim: 3.6"h x 9.5"w x 9"d; 8.3 lbs..... **$699.99**

Available Accessories
DM330MVT 30 amp switching power supply with meter, **EDS5** 5' mic ext. cable, **EDX2** 160-10M auto wire tuner, **EMS14** Desk top microphone, **PC25** DC cable

DX-70TH Compact HF Transceiver – Covers 160 to 6 meters with 150 kHz to 30 and 50 to 54 MHz receive in SSB, CW, AM, FM modes. 100W (AM 40W); Detachable face; 100 multi-function memories; Two VFOs; Easy split operation; Quick offset; Multi-function control; Narrow filter; Noise blanker; Speech processor; CTCSS for 10M & 6M repeaters; Full, semi or auto break-in CW; All mode squelch; Two scan modes; Separate HF and 6M antenna connections; RIT; TXIT; Selectable AGC; Dial lock; Automatic antenna tuner interface; MARS/CAP capable.
Dim: 2.3"h x 7"w x 9"d; 8.3 lbs..... **$749.99**

Available Accessories
DM330MVT 30 amp switching power supply with meter, **EBC8** Front control head bracket, **EBC9** Extra mobile bracket, **EDS5** 5' mic extension cable, **EDS6** 15' remote cable, **EDX2** 160-10M auto wire tuner, **EMS14** Desk mic, **PC25** DC cable

ALINCO SINGLE BAND MOBILES

DR-135TMKII 2M Mobile Transceiver – Covers 144–148 MHz transmit with 118–135.995 MHz (AM aircraft) & 136–173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF microphone; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A. Dim: 5.58"w x 1.57"h x 6.83"d; 2.3 lbs... **$169.99**

DR-135TPMKII – Same as 135TMKII with addition of the TNC for 1200/9600bps packet and APRS operation..... **$269.99**

DR-235T – Covers 222–224.995 MHz TX & 216–279.995 MHz RX; 25W/10/5W out. **$249.99**

DR-435TMKII – Covers 430–450 MHz TX & 350-511.995 MHz RX; 35W/10/5W output ... **$269.99**

Available Accessories:
EDC37 DC cable, **EDC43** Cigarette lighter cable, **EJ41U** 1200/9600 TNC (T and TMKII's only), **EJ47U** Digital board (MKII's only), **ERW4** PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows programming software

DR-M06TH 6M FM Transceiver – Covers 50–54 MHz FM. Selectable 20/1W output; 100 memories + CALL channel; 50 tone CTCSS encoder; Programmable repeater offset for each memory channel; Time-out timer; DTMF hand microphone; 13.8VDC @ 3A. Dim: 5.5"w x 1.5"h x 4.5"d; 1.6 lbs **$259.99**

Available Accessories:
HK130 Hardware kit, **MB130** Mnt. bracket, **PC15B** DC cable

DUAL BAND MOBILES

Shown with optional EDS9 Separation kit

DR-635T Twin band Mobile Transceiver – Transmit coverage: 144-147.995 and 430-449.995 MHz; Receive coverage: 108-173.995 and 335-480 MHz includes VHF AM air band and FM broadcast (87.5-108 MHz). 200 alphanumeric memories. Power output: (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band receive capability (V/V, U/U, V/U and U/V) with cross-band repeat. Large, easy-to-read three color LCD shows status icons and alphanumeric tags. CTCSS & DCS encode/decode plus 4 different tone bursts. Includes: auto power off, time out timer, tone burst, scan, channel lock-out, dimmer, VFO auto program, theft alarm function, narrow FM, power supply voltage display and remotable head. Rear mounted fan for cool operation during transmit. The front panel is remotable via the optional EDS-9 separation kit. Advanced Digital Mode (10F3) with speech compression is provided via the optional EJ-47U board. The supplied Electret Condenser DTMF Hand Microphone allows parameter setting and direct frequency entry. Includes DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) function cable and anti-theft sticker..... **$369.99**

DR-620T Twin band Mobile Transceiver – Looks the same, and has the same coverage and features of the newer DR-635T above. Does not have cross band repeat, three color display and power levels are 50/10/5W (VHF) and 35/10/5W (UHF) ... **$339.99**

Available Accessories for DR635T & DR-620T:
EDS9 Separation kit, **EJ47U** Digital board, **EJ50U** TNC unit, **ERW4** PC cable, **HK130** Hardware kit, **MB130** Mounting bracket, **PC15B** DC cable, **SW620** Windows prog. software

WE WANT TRADE-IN'S
Tell us what you have to trade...
1-800-558-0411
Sorry, no Handhelds

MFJ LOW POWER TRANSCEIVERS

SINGLE BAND CW

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever your go. Hot superhet receiver with super-quiet FET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RIT. Full 5W power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 2.5"h x 6.5"w x 6"d; 2 lbs.
Four different models:
9015 – 15M, 5W ... **$189.99** **9030** – 30M, 5W ... **$189.99**
9020 – 20M, 5W ... **$189.99** **9040** – 40M, 5W **$189.99**

SINGLE BAND SSB

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4–6dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3 Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 2.5h" x 6.5"w x 6"d; 2 lbs.
Six different models:
9402X 2M, 7W.... **$289.99** **9420X** 20M, 20W.. **$249.99**
9406X 6M, 10W.. **$269.99** **9440X** 40M, 12W.. **$249.99**
9410X 10M, 20W . **$259.99** **9475X** 75M, 12W. **$249.99**

See the Price Guide under MFJ for available accessories for these models

HF RADIOS

TS-480HX HF/6M All-Mode Transceiver – Covers amateur bands 1.8 to 50 MHz, including 60M with continuous receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two PS-53s or equivalent), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Twin cooling fans; Full range of CW features; Auto tune; Memory name function; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/ narrow deviation; 1750 Hz tone; Noise blanker; Crossband repeater (with TM-D700A); Auto power off and time-out timer; Back lit keys; Optional IF filters available; PSK31 compatible; Packet cluster tune (with TM-D700A); PC-based control. Dim: 7.06"w x 2.38"h x 10.19"d (main unit), 7.06"w x 2.94"h x 1.44"d (panel); 7.05 lbs. (main); 1.1 lbs. (panel) **$1119.99**

TS-480SAT – 100W version of the HX. Includes built-in automatic antenna tuner..... **$1019.99**

Available Accessories

E30348905 6' DC cable, **HS6** Lightweight headphones, **MB480** Carry bracket with handle, **MC43S** 8-pin hand mic, **MC47** Multi function 8-pin hand mic, **MC60A** 8-pin amp desk mic, **MJ88** Modular/8-pin adapter, **PG20** 22' DC cable, **PG4Z** 13' panel extension kit, **PS53** Heavy-duty power supply, **SO3** TCXO unit, **SP23** Speaker, **SP50B** External mobile speaker, **VGS1** Voice guide/storage unit, **YF107C** 500 Hz CW filter, **YF107CN** 270 Hz CW filter, **YF107SN** 1.8kHz SSB filter

KENWOOD

TS-570D(G) HF Transceiver – Covers 160–10M with 500 kHz to 30 MHz receive. Variable output: 5-100W SSB/CW/FM and FSK (AM 25W); 100 memories with multiple functions; Large amber-colored backlit LCD display; 10-key direct entry; 46 easy to use menu functions; Multiple scanning functions; 16-bit AF-stage DSP VOX; XIT/RIT; IF shift; Noise blanker; All mode squelch; TX audio shaping; Built-in electronic keyer; Full and semi break-in CW; CW message memory; CW auto tune; 38 tone CTCSS encoder and 1750 Hz tone; TX audio shaping; Packet and FSK; PC control option; Two antenna connectors; Packet port; Built-in automatic antenna tuner; Requires 13.8V DC @ 20.5A.
Dim: 10.6"w x 3.7"h x 10.6"d; 15 lbs **$919.99**

TS-570S(G) HF+6M Transceiver – Same as the TS-570D(G), but covers 160–10M plus 6M. 0.5–60 MHz general coverage receiver **$1079.99**

Available Accessories

DRU3A Digital recording unit, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB430** Mobile mounting bracket, **MC43S** 8-pin hand mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **PG2Y** 13' DC cable, **PG2Z** 6.5' heavy-duty DC cable, **PS53** Heavy-duty power supply, **SO2** TCXO unit, **SP23** Speaker, **SP50B** External mobile speaker, **VS3** Voice synthesizer, **YK88CN1** 270 Hz CW filter, **YK88C1** 500 Hz CW filter, **YK88SN1** 1.8 kHz SSB filter

TS-2000LE

TS-2000 HF/VHF/UHF All Mode Transceiver Offers 4 platforms: (1) A traditional transceiver with full function front panel, (2) the high-tech looking "silver box" version (TS-B2000), (3) computer controlled with software, or (4) limited edition black finish with ARCP-2000, DRU-3A & VS-3 included. 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm, 1.2 GHz and HF RX..... **$1619.99**

TS-B2000 HF/VHF/UHF All Mode Transceiver Same as the TS-2000 with high-tech "silver box" look. Includes PC control software..... **$1399.99**

TS-2000X HF/VHF/UHF All Mode PC Controlled Transceiver – TS-2000 w/1.2 GHz ... **$2099.99**

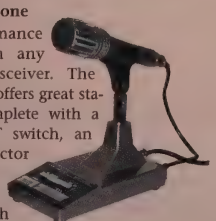
TS-2000LE Limited Edition TS-2000 – Comes with ARCP-2000 radio control software, DRU-3A digital recording unit & VS-3 voice synthesizer. Eye-catching black finish . (subject to availablity) **$1999.99**

Available Accessories

ARCP2000 PC/radio control software (included with B2000 model), **DRU3A** Digital recording unit, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **KPS15** 23A switching power supply, **MB430** Mobile mounting bracket, **MC43S** 8-pin hand mic, **MC57DM** Lit TTP mic, **MC60A** 8-pin amp desk mic, **MC90** 2-head DSP desk mic, **PG2Y** 13' DC cable, **PG2Z** DC cable, **PS53** Heavy-duty supply, **RC2000** Remote face plate mobile kit, **SP23** Speaker, **VS3** Voice synthesizer

KENWOOD
POPULAR ACCESSORIES

MC-60A
Desktop Microphone



Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Requires two "AA" batteries..... **$149.99**

MC-90 High Performance DSP Desktop Microphone – A high quality DSP-compatible desk mic. It is supplied with two interchangeable heads. One has a flat frequency response for good overall performance, while the other offers exceptional clarity and an output level characteristic that peaks at around 3 kHz, making it ideal for DX applications. There is also a 3-position (M, V1 or V2) switch on the base to tailor low-range cutoff frequency to suit the operator. The 250 ohm mic terminates to a standard 8 pin mic plug **$249.99**

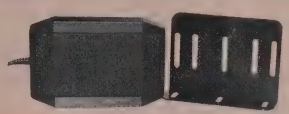
HS-5 Deluxe Headphones

Specifically designed for communications. Natural sound and low pressure permits long hours of fatigue free listening. Replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response: 150-4000Hz, 8Ω. Weight: 13 oz..... **$79.99**

HS-6
Lightweight Headphones

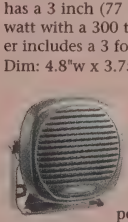
Response: 100-10,000 Hz Impedance: 12.5 ohms; 6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz. **$59.99**

LF-30A Low-Pass Filter – Use with 160-10M transceivers to suppress TVI causing harmonics. Provides a 30 MHz cutoff and >90dB attenuation from 90–300 MHz. Power rating: 1000W SSB. Insertion loss: <0.5dB @ 30 MHz.
Dim: 9.6"w x 2"h x 1.5"d; 1.2 lbs..... **$64.99**



SP-50B Communications Speaker – Compact, for mobile operation. High quality 2.5 in. speaker; handles 2.5W. Response: 300-4000 Hz. Includes a mounting bracket.
Dim: 4.8"w x 3.2"h x 1.4"d; 10 oz. **$55.99**

SP-23 Base Speaker – This versatile 8 ohm speaker features a metal cabinet with flip-out tilt bar. It has a 3 inch (77 mm) speaker element rated to 1 watt with a 300 to 5000 Hz response. This speaker includes a 3 foot audio cable.
Dim: 4.8"w x 3.75"h x 9.25"d; 2.8 Lbs.... **$89.99**



KES-5 Mobile speaker
Heavy duty, rugged. Meets Military Standards 810C, D, E, F for: low pressure, high temperature, low temperature, temperature shock, solar radiation, humidity, salt fog, dust, vibration and shock! 4Ω impedance speaker has a maximum input power of 40W making great for emergency and other vehicles requiring loud and clear audio. Includes a metal bracket to support the speaker from below or above, and attached cable. Install a connector of your choice.
Dim: 5.1"w x 5.1"h x 3"d; Wt: 1.8 lbs..... **$59.99**

New countries?
New to HF?

HO-HR Panama
HQ-HR Honduras
HS Thailand
HV Vatican
HZ Saudi Arabia
OY Faroe Is.
OZ Denmark
P2 Papua New Guinea
P4 Aruba

Work 'em with a New radio!

Whether you're new to HF or just looking for a capable second rig, the IC-718 is for you. Its front panel offers a clean, well laid out design with generous spacing between keys. The bright LCD display is clear and easy to read at a glance. Plus, the 718 offers some advanced features you wouldn't expect in a rig of this size (or price!): Built-in DSP; 100 Watts (40W AM), and 100% duty cycle; adjustable noise blanker; built-in VOX; built-in CW keyer; and more.

Looking to move up the performance ladder? For a moderate price increase, the 746PRO offers true "hot rod" features and capabilities. That's because this HF/6M/2M performer borrows much technology from its big brothers, the 756PRO series: Built-in 32-bit IF-DSP; 100 Watts on all bands, and 100% duty cycle; digital filtering (no need to buy optional filters!) with independently selectable tuning shapes for CW & SSB; menu-driven controls; auto and manual notch filter; built-in auto antenna tuner; band scope; and more.

IC-718 160–10M* Coverage • 100W Output Power (40W on AM) • RX Coverage 0.03-30MHz • 101 Memories • Multiple Scanning Functions • Front Mounted Speaker • IF Shift • Mic Compressor • RF Gain Control • Noise Blanker • RF Attenuator & PreAmp • Auto Notch Filter • Ample CW features including Electronic Keyer • VOX • Digital S/RF Meter • Flexible Filter Selection • Optional DSP • Optional Voice Synthesizer • And much more!

IC-746PRO 160–10M* Coverage, 2M, & 6M • 32 Bit Floating Point IF-DSP & 24 Bit AD/DA Converter • Selectable Digital IF Filter Shapes For SSB & CW • Improved 3rd Order Intercept Point • All Mode • CW Memory Keyer • VOX • Auto Antenna Tuner • AGC Loop Management • Auto & Manual Notch • Digital Twin Passband Tuning • Built-in RTTY Demodulator & Decoder • LCD Display • 9600 Baud Packet Capable • RX Audio Equalizer • SWR Analyzer • And much more!

For the love of ham radio.

AMATEUR | AVIONIC | LAND MOBILE | MARINE | RECEIVERS | SYSTEM | WWW.ICOMAMERICA.COM

ICOM

IC-756PROIII Where to next?

AMATEUR | AVIONIC | LAND MOBILE | MARINE | RECEIVERS | SYSTEM : WWW.ICOMAMERICA.COM

ICOM®

©2005 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 8785

ICOM MAIL IN REBATES MAY APPLY

ICOM HF BASE STATION

IC-718 HF All Band Transceiver – Perfect for beginners or backup rig. Covers 160–10M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/RF meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8VDC @ 20A.
Dim: 9.4"w x 3.75"h x 9.4"d; 8.5 lb..... **$599.99**

Available Accessories

BET 706TUNECONT Better RF tune control IC706/718, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR338** High stability crystal, **CT17** Level converter, **FL222** 1.9 kHz 455 kHz IF SSB filter, **FL257** 3.3 kHz 455 kHz IF SSB filter, **FL52A** 500 Hz 455 kHz IF CW filter, **FL53A** 250 Hz 455 kHz IF CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **OPC025D** DC cable, **OPC598** 23' extension cable (AT180), **OPC599** 7+8-pin-13-pin adapter, **PS125** 25A switching supply, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP10** Slim-line external speaker, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **UT102** Voice synthesizer, **UT106** DSP unit, **W4R OBF703718DIY** CW & SSB Collins Filters

HF/6M/2M BASE STATION

IC-746PRO HF/VHF All Mode Transceiver Covers 160–10M + 6M + 2M with 0.03–60 MHz, and 108–174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-31; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; RF speech compressor; Tone squelch/scan; VOX; SmarTune™ variable speed tuning; Auto repeater offset; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A.
Dim: 11.3"w x 4.7"h x 12.5"d; 19.6 lbs **$1549.99**

Available Accessories

BET IMATE Better RF accessory, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **CR338** High stability crystal unit, **CT17** Level converter, **HM36** Scanning hand mic, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters, **UT102** Voice synthesizer

HF/6M BASE STATION

IC-756PRO III HF/50 MHz All Mode Transceiver – Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time, etc.; Screensaver function for long LCD life and reduced "burn in".
Dim: 13.3"w x 4.3"h x 11.2"d; 21 lbs.... **$2999.99**

Available Accessories

BET IMATE Better RF accessory, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **CT17** Level converter, **HM36** Scanning hand mic, **OPC025D** DC cable, **PS125** 25A switching power supply, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP 20** Speaker with audio filters, **SP23** Speaker with audio filters, **UT-102** Voice Synthesizer

We accept I.M.P.A.C.® Government Credit Cards

VHF/UHF DUAL BAND BASE STATION

IC-910H VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM **tribander**. Covers 144-148, 430-450 and 1240-1300 MHz (optional). Output: 5-100W (2M), 5-75W (440 MHz), 10W (1.2 GHz optional); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch & Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A.
Dim: 9.5"w x 3.6"h x 9.4"d; 10 lbs..... **$1279.99**

Available Accessories

AG25 2M mast mount preamp, **AG35** 430 mast mount preamp, **CR293** High stability crystal unit, **CT17** Level converter, **FL132** 500 Hz main receiver CW filter, **FL133** 500 Hz sub-band receiver CW filter, **MB23** Carrying handle, **MB5** Mobile mount, **PS125** 25A switching power supply, **SM20** Stand mic for base stations, **SP10** Slim-line external speaker, **UT102** Voice synth., **UT106** DSP unit, **UX910** 10W 1.2 GHz module

HIGH-END HF/6M BASE STATION

IC-7800 HF/50 MHz Transceiver – The Icom flagship radio that is a fusion of 40 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching & three roofing filters. The ultimate in performance, function, and quality without compromise. 1.8 to 29.7 + 50 to 54 MHz TX, 0.03 - 60 MHz general RX; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, Dual watch; RIT and ΔTX; Separate 50 MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in supply (85–265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Mic. equalizer; Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope S-meter, and RTTY/PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping); Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External CRT display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug.
Dim: 16.6"w x 5.9"h x 17.1"d; 55 lbs . **$10599.99**

Available Accessories

BET IMATE Better RF message acessory, **CT17** Level converter, **HM36** Scanning hand mic, **SM20** Stand mic for base station, **SP20** Speaker with audio filters, **SP23** Speaker with audio filters

POPULAR ICOM ACCESSORIES

SM-20 Electret Microphone – Up-Down tuning; PTT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin plug. Compatible with the IC-7800, IC-746, 746Pro, 756, 756Pro, 756Pro II & III, 775, 781, 820, 821, 910H & 920.
Requires **OPC-589** with IC-706 & IC-7000 **$199.99**

SP-23 Speaker w/Audio Filters – Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. headphone jack; Metal construction; Tilt-stand.
Dim: 5.75"w x 4.25"h x 11.2"d; 3.6 lbs **$199.99**

PS-125 Base Station Power Supply
Provides full 25 Amps of power for Icom radios.
Dim: 4.4" w x 3.7"h x 11.3"d; 6.6 lbs..... **$299.99**

IC-7800
Upgraded

3 ROOFING FILTERS
3kHz • 6kHz • 15kHz

Now with three roofing filters!

You asked for it - we delivered. Icom has added a third roofing filter to our ultimate HF Rig - the 7800! We have redesigned the '7800's main and sub receiver circuitry to add ultra narrow 3kHz roofing filters - in addition to the existing 6kHz and 15kHz filters. Already own a 7800? We can upgrade your existing 7800 for you. Ask AES for details.

QUAD DSP TECHNOLOGY The '7800 incorporates four 32-Bit DSP processors: One unit for each receiver, one for transmit, & one for band scope.

2-MODE REAL-TIME BAND SCOPE Whether you want to watch band activity around your operating frequency, or search and pounce by using the fixed band scope, the '7800 sees the signals that others can't.

CW AUTO TUNE Quickly zero beat a CW signal, then tune above or below, to break the pile-up! Each receiver has its own Auto Tune.

DIGITAL TWIN PASS BAND TUNING Reduce or completely eliminate interfering signals by narrowing and shifting the IF passband.

RTTY & PSK31 ENCODE/DECODE More than just a tuning indicator, fully functional Encode/Decode software for hours of operating fun.

200 WATTS @ 100% DUTY CYCLE The '7800 produces the biggest signal! Rated for 100% duty cycle, run it as hard as you can!

FRONT PANEL DYNAMIC ANTENNA SELECTOR No need to reach behind your radio to select an antenna - do it all from the front panel!

ATTENTION 6m ENTHUSIASTS The 7800 has a separate front-end specifically designed for 6M operation. This greatly reduces intermodulation characteristics, enabling weak signal work without distortion or interference from strong signals in the band.

CONTESTER DESIGNED ERGONOMICS All functions and controls are right where they should be, allowing you to keep one hand on the controls and one on the keyboard.

For the love of ham radio.

ICOM®

*Cellular frequencies blocked. ©2006 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 8285

The Hottest Field Gear Anywhere!

HF/VHF/UHF Portable Operation Just Got a Lot More Powerful!

FT-897D
HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

TCXO DSP 60 m Band

HF/VHF/UHF Multimode Mobile Transceiver, now Including Built-in DSP and 60-Meter Coverage!

FT-857D
HF/50/144/430 MHz
100 W All Mode Transceiver
(144 MHz 50 W/430 MHz 20 W)

DSP 60 m Band

REAL PERFORMANCE, REALLY PORTABLE

FT-817ND
HF/50/144/430 MHz
5 W All Mode Transceiver (AM 1.5 W)

60 m Band

ATAS-25
Manually-Tuned Portable Antenna
ATAS MICRO

Automatic Matching for FT-897/857 Series Transceivers

WATERPROOF

FC-40
Automatic-Matching 200-Memory Antenna Tuner

- Operational on 1.8 ~ 54 MHz when used with 66' (or longer) wire, or 7~ 54 MHz with standard 8.2' whip antenna (wire/whip antenna not supplied).
- Required Drive Power: 4 ~ 60 Watts. Maximum TX Power: 100 Watts.

Mobile Auto-Resonating 7~430 MHz for FT-897/857 Series Transceivers

ATAS-120A
Active Tuning Antenna System
(no separate tuner required)

VHF/UHF Base RadialKit ATBK-100 for ATAS-120A.

YAESU
Choice of the World's top DX'ers™

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

For the latest Yaesu news, visit us on the Internet:
http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU

HF RADIOS

FT-857D **Ultra-compact, HF/VHF/UHF 100W All-Mode Mobile** – Blends leading-edge technologies of the FT-897 and MARK-V into the smallest full-power HF multi-mode. Now includes 60M! Unique ergonomics deliver unmatched ease of use with an ultra-compact design featuring a large, main tuning dial. Covers HF, 50, 144 and 430 MHz, with 0.1–56, 76–108, 118-164 and 430-470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories (10 groups); Enhanced performance with installed DSP board; Large, multi-color dot matrix display; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™; Optional remote-head operation and remote control microphone. Dim: 6.1"w x 2.0"h x 9.2"d; 4.6 lbs..... **Call/Web**

Available Accessories:

BET YAETUNECONT Better RF, **W4R ANTENNABOSS** W4RT interface, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **ADMS4B** Programming Software, **ATAS120** HF/6/2/430 antenna, **ATAS25** 40/20/15/10/6/2/430 antenna, **ATBK100** ATAS100 base kit, **CT39** Packet cable, **CT58** Band data cable, **CT62** Cat interface cable, **EDC20** DC cord, **FC30** External antenna tuner, **FC40** Auto tuner, **FP1023** 23A switching power supply, **FP1030A** 25A power supply with meters, **MD100A8X** Desk mic with tone control, **MD200A8X** Deluxe high fidelity desk microphone, **MH36E8J** TTP microphone, **MH59A8J** Remote control TTP microphone, **MLS100** Mobile speaker, **TCXO9** TCXO unit (0.5ppm), **T9023225** Extra DC cord, **YA007FG** FG whip w/mount, **YF122C** 500 Hz Collins CW filter, **YF122CN** 300 Hz Collins CW filter, **YF122S** 2.3 kHz Collins SSB filter, **YH77STA** Stereo headphones, **YSK857** Separation kit

FT-897D **HF/VHF/UHF Multi-Mode Portable/Base** – Self-contained, can operate without an external power supply. Using the optional 13.2V @ 4500mAh NiMH internal battery pack, it operates at 20W on all bands except 430 MHz. Two batteries may be installed simultaneously giving up to 8 hours of use. Power with external 13.8V DC is 100W (HF/50 MHz), 50W (144 MHz) and 20W (430 MHz), all adjustable down to 5 Watts; Includes 60 meters; SSB/CW/AM/FM and digital modes; Large-diameter main tuning dial; Built-in keyer, DSP and TCXO; Selectable tuning steps (2 kHz / 4 kHz); Easy receiver offset tuning; Scrolling front panel; Multi-function keys with instant "hot key"; RS-232 port; Aluminum, die-cast chassis.

Dim: 7.9"w x 3.14"h x 10.3"d; 8.6 lbs.... **Call/Web**

Available Accessories:

Uses the same accessories as the FT-857D above, but excluding: **CT58, FP1023, FP1030A, TCX09** & **YSK857**.

Additional accessories for FT-897D: **CD24** 4-hr charge adapter; FNB78, **FNB78** 4.5AH NIMH battery, **FP30** Internal PS, **MMB80** Mobile bracket, **PA26B** 110VAC charger; CD-24

FT-817ND **HF/VHF/UHF Backpack Transceiver** Self-contained and low power for portability. Covers 160– 10M, 60M, 50 MHz, 144 MHz, 430-450 MHz, plus Alaska emergency channel (5167.5 kHz) Receive: 100 kHz – 56 MHz, 76–154 MHz, 420–470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM (13.8V external DC), 1.5W AM, 2.5W SSB/CW/FM (9.6V NiCad pack) or 8 AA's (includes internal alkaline case), 0.7W AM, up to 5W SSB/CW/FM. Power programmable via menu. Dual VFOs; 200 alphanumeric memories (home channels and band-limit); SmartSearch™ memory loading. Modes: USB, LSB, CW, AM, FM, W-FM, AFSK, packet; RTTY, PSK31-U, PSK31-L, user-defined USB/LSB. Two-color, multi-function LCD meters ALC, power output, SWR, modulation. RF gain/squelch control; Noise blanker; Attenuator; Split capability, IF shift, and RIT; Electronic keyer; VOX; Auto repeater shift; CTCSS/DCS; Front/rear antenna jacks; PC control capability; 1400mAh NiMH battery and charger. Dim: 5.3"w x 1.5"h x 6.5"d; 2.6 lbs .....**Call/Web**

Available Accessories:

W4R OBF817/NDDIY W4RT CW & SSB Collins Filter, **W4R OBPSTD** W4RT Speech compressor, **W4R OPFCW** W4RT 500 Hz Collins, **W4R OPFSSB** W4RT 2.3 KHz Collins, **ADMS4A** Programming software, **ATAS25** 40/20/15/10/6/2/430 MHz antenna, **CSC83** Soft case, **CT39** Packet cable, **CT62** Cat interface cable, **EDC6** DC cord, **FNB72** 9.6V 1000mAh NiCad, **FNB85** 9.6V 1400mAh NiMH, **MH36E8J** TTP mic, **MLS100** Mobile speaker, **NC72B** Wall charger, **TCXO9** TCXO unit, **YA007FG** FG whip with mount, **YF122C** 500 Hz Collins CW filter, **YF122CN** 300 Hz Collins CW filter, **YF122S** 2.3 kHz Collins SSB filter

W4RT ACCESSORIES

One-Plug Filters

Direct plug-in CW & SSB filters for Yaesu FT-817, 857 & 897 radios. The 500-Hz CW filter contains a 7-pole Collins Mechanical Filter identical to the Yaesu YF-122C. The 2.3-kHz SSB filter contains a 10-pole Collins Mechanical Filter identical to the Yaesu YF-122S. Proper filter termination & connectors are integral part of the W4RT-filter assembly so you install & remove these filters just as you do with the Yaesu filter. Each filter contains the coding for the FT-857 & 897 to recognize it as a 500 Hz or 2.3 kHz filter.

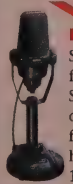
OPF-CW $114.99 / OPF-SSB $129.99

Speech Compressor

OBP (One BIG Punch) for the Yaesu MH-31 mic. used with the FT-817, 847, 857 & 897. An AF-based compressor specifically configured to provide a 5dB increase in talk power while maintaining good audio quality for communications. The unit can be mounted inside the MH-31, requires no additional electrical power, and turns on or off with the MH-31's Tone switch. Works with most mics having 5 VDC available **OBP-STD $49.99**

OBP-UNIV – The OBP for microphones having 7-12 VDC available, such as the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios **$49.99**

YAESU MICROPHONE



MD-200A8X **High Fidelity Desktop Mic.** Studio-quality, 30-17,000 Hz dynamic element for high fidelity SSB. The exclusive Variable Side Pressure Control allows adjustment of overall frequency response for a natural, high-fidelity sound for everyday rag chewing, or to high-articulation with a moderate peak above 1500 Hz for DX or contesting..... **$399.99**

FT-2000 **Brand new Competion-Grade HF/6M transceiver** – Covers 160–6M (TX) and 30 kHz–60MHz (RX), all modes. Power output: 100W. Features: Built-in automatic antenna tuner; DSP-based variable IF Bandwidth, IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz included); Dual In-band Receive; Receiver Front End includes VRF (variable RF Tuning) Preselector that works in conjunction with a bank of fixed bandpass filters; External display port with optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays.

Dim: 16"w x 5.3"h x 14"d; 33 lbs **$2999.99**

Available Accessories

DMU2000 Data management unit, **MD100A8X** Desk microphone w/tone control, **MD200A8X** Dlx hi-fidelity desk microphone, **MH31B8** Extra hand microphone, **MTU160** U-tuning kit A; 160M, **MTU30/20** U-tuning kit C; 30/20M, **MTU80/40** U-tuning kit B; 80/40M, **YF122C** 500HZ Collins CW filter , **YF122CN** 300HZ Collins CW filter, **YH77STA** Stereo headphones

HIGH-END HF/6M BASE STATION

FTDX-9000 Contest

FTDX-9000D

FTDX-9000 Series – Covers HF and 6 meters; available in three configurations including 200 and 400W versions. Class-A operation at 100W (400W version or 75W with the 200W version). The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does.

FTDX-9000D 200W, TFT display.... **$11499.99**
FTDX-9000MP 400W, no TFT..... **$12049.99**
FTDX-9000 Contest 200W, no TFT **$5699.99**
(all FTDX-9000 radios are drop shipped from Yaesu)

Available Accessories

MD100A8X Desk microphone w/tone control, **MD200A8X** Dlx hi-fidelity desk microphone, **MH31B8** Extra hand microphone, **YH77STA** Stereo headphones

FTDX-9000D & FTDX-9000 Contest only:

SP9000 Ext. dual speakers w/filters (FTDX-9000MP comes with similar dual speaker FPS-9000H)

The radio... FT DX 9000

The YAESU FT DX Series, born decades ago, soon grew through such best-sellers as the FT DX 401 to represent the very best in high-power DX-ready base stations, and the envy of those unfortunate few who didn't own one.
The return of the FT DX series brings back devastating output power, along with the most advanced features and specs, answering the calls for the ultimate DX base station.

Throughout the past 50 years, YAESU has poured know-how and passion into our leadership role in the development and perfection of HF SSB technology. This radio is born out of this tradition.

FT DX 9000 Contest
200 W Custom-Configurable Version

Two Pairs of Meters, plus LCD Window
VRF Input Preselector Filter
Three Key Jacks, and Dual Headphone Jacks
50 V/12 A Internal Switching Regulator Power Supply

FT DX 9000D 200 W Version

Large TFT, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full Dual Receive Capability
Three μ-Tuning Modules for 160 - 20 M
50 V/12 A Internal Switching Regulator Power Supply

FT DX 9000MP 400 W Special Order Version

Two Pairs of Meters, plus LCD Window; Data Management Unit and Flash Memory Slot Built In
Main/Sub Receiver VRF, plus Full Dual Receive Capability
External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters

The radio... YAESU
Choice of the World's top DX'ers

Customizing Optional Components For all versions, you may select the display color at the time of ordering. Additional installation fee applies for installation of different color at later date

● Light Blue

● Light Blue Display option (Order via WDXC)

● Umber Orange

● Umber Orange Display option (Order via WDXC)

To request the FT DX 9000 Catalogue, please call (714) 827-7600, Ext. 2272.

For the latest Yaesu news, visit us on the Internet: http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

Vertex Standard, US Headquarters,
10900 Walker Street, Cypress, CA 90630

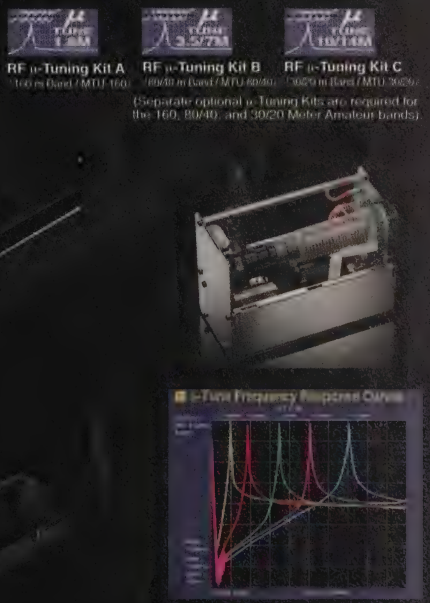
The radio... YAESU

Choice of the World's top DX'ers

Unlock the Secrets of the Low Bands!

YAESU's Exclusive, Fully-Automatic μ -Tuning Preselector System!

Now you can configure your FT-2000 series transceiver with the same ultra-sharp μ -Tuning RF preselector modules as are available for the FT DX 9000 series! Fully automatic in operation, the μ -Tuning preselectors utilize a stack of high-density ferrite cores driven through a large-diameter (1.1"/28 mm) coil by a belt drive powered by a precision hybrid stepper motor. This results in a typical "Q" of greater than 300, providing roll-off of RF energy in the first few dozen kHz either side of your operating frequency! Responding instantly as you rotate the VFO dial, the μ -Tuning system is totally transparent during operation. . . all you'll notice is the wonderful lack of "junk" on the band that your previous rig couldn't filter out!



RF μ-Tuning Kit A
160 m Band / MTU-160

RF μ-Tuning Kit B
80/40 m Band / MTU-80/40

RF μ-Tuning Kit C
30/20 m Band / MTU-30/20

(Separate optional μ-Tuning Kits are required for the 160, 80/40, and 30/20 Meter Amateur bands)

HF/50 MHz Transceiver

FT-2000D **200 W Version (External Power Supply)**

FT-2000 **100 W Version (Internal Power Supply)**

For the latest Yaesu news, visit us on the Internet:
http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in some areas. Frequency coverage may differ in some countries. Check with your local Yaesu dealer for specific details.

YAESU

Choice of the World's top DX'ers

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

KENWOOD

SINGLE BAND MOBILE

TM-271A 2M FM Transceiver – Delivers powerful mobile performance with 60W output and other great features such as multiple scan functions and memory names. Covers 144-148 MHz transmit with 136–174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset..... **$169.99**

Available Accessories:
MJ88 Modular/8-pin adapter, **PG2N** DC cable, **PG5D** PC interface cable, **SP50B** External mobile speaker

DUAL BAND VHF/UHF MOBILES

TM-G707A 144/440 MHz FM Dual Band – Extraordinarily user-friendly with extra-large detachable control panel. 144-148, 430-450 MHz transmit; 118-174, 410-524 MHz receive; 50/10/5W (VHF); 35/10/5W (UHF); Detachable control panel with high-visibility amber LCD display; 180 multi-function alphanumeric memories; Multi-scan functions; Priority scan function; Built-in CCTSS encoder and decoder; 1200/9600bps packet ready; Cross band repeater access; Selectable frequency step; S-meter squelch; Time-out timer; Dimmer control; Auto power-off; Multi-function backlit mic. with DTMF. Dim: 5.5"w x 1.5"h x 7.4"d; 2.7 lbs..... **$279.99**

Available Accessories:
DFK3C 9' cable kit, **DFK4C** 13' cable kit, **DFK7C** Deluxe 23' remote kit, **MB201** Mobile bracket, **MJ88** Modular/8-pin adapter, **PG2N** DC cable, **PG4S** PC interface cable, **PG5A** Packet data cable, **SP50B** External mobile speaker, **VS3** Voice synthesizer

TM-V708A 144/440 MHz Dual Band Transceiver It's similar to the popular TM-D700A except that it does not have APRS firmware, TNC or computer hookups. Dual Display; Power: (144-148) 50W & (430-450) 35W; RX: 136-175, 300-524 & 800-1300 MHz (cell blkd); 200 Alpha Memories; Auto repeater Offset; Automatic Simplex Checker; Visual Band Scope; DTSS Selective Call, PL Decode/Encode; Remote Head; DTMF Backlit Hand Mic.
Dim: 5.5"w x 1.5"h x 7.6"d; 3 lbs **$399.99**

Available Accessories:
MB201 Mobile bracket, **MJ88** Modular/8-pin adapter, **PG2N** DC cable, **PG4X** 13' extension cable kit, **PG5A** Packet data cable, **SP50B** Ext. mobile speaker, **VS3** Voice synthesizer

DUAL BAND MOBILE

AvMap Ready

TM-D700A 144/440 MHz Dual Band Data Communicator – Fully equipped to complement SSTV, GPS and APRS®. operations. Covers: 144-148, 430-450 MHz transmit with 118–148, 136–175, 300–524 & 800–1300 MHz (cellular blocked) wide band receive. Power: 50/10/5W (VHF); 35/10/5W (UHF); Detachable control panel with large backlit LCD and multi-function key display; Backlit microphone with alphanumeric input; Easy-to-use menu system; Advanced APRS-99 features; Built-in 1200/9600bps TNC (AX.25); DX cluster monitoring; Dual receive on same band for voice and data; 200 alphanumeric memories; 2 call channels; 10 programmable memory scan banks; Built-in CTCSS and 1750 tone burst; Digital Code Squelch (DCS); DTMF memory; Cross band and fixed band repeater operation; DCS code scan, tone, CTCSS scan; 10-channel program scan; Visual band scope; 13.8VDC @ 11.5A. Dim: 5.5"w x 2.4"h x 1.2"d; 0.4 lbs. (control); 5.5"w x 1.2"h x 7"d; 2.6 lbs. (main) **$489.99**

Available Accessories:
MB201 Mobile bracket, **MJ88** Modular/8-pin adapter, **PG2N** DC cable, **PG4X** 13' extension cable kit, **PG5A** Packet data cable, **SP50B** External mobile speaker, **VS3** Voice synthesizer

ICOM

SINGLE BAND MOBILE

D-Star Capable

IC-2200H 2M FM Transceiver – A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Improved receive IMD helps provide protection from excessively strong signals ,such as pagers. Power levels: 65, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alphanumeric memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCS encode/decode plus tone scan functions and "pocket beep"; Three-way Priority watch; 24 DTMF autodial memories; Squelch delay; GPS, NMEA compatible (GPS not supplied). Includes remote control microphone, DC power cable, mobile mounting bracket and microphone hanger. Dim: 5.5"w x 1.56"h x 5.25"d; 2.75 lbs.... **$179.99**

Available Accessories:
CS2200H Windows™ software, **MB17A** Quick release bracket, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Ext. Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **UT118** Digital board

ICOM MAIL IN REBATES MAY APPLY

SINGLE BAND MOBILE

IC-V8000 2M FM Transceiver – Big 75W power output. Covers 144–148 transmit with 136-174 MHz receive. 207 alphanumeric memory channels including one call and six scan edge channels; Each memory channel stores a six character name, tone frequency, skip info, and more; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Large cooling fan on the back and large cooling fins; Selectable Green or Amber display; Includes HM-133V remote control microphone.
Dim: 5.9"w x 2"h x 5.9"d; 2.22 lbs..... **$199.99**

Available Accessories:
CSV8000 Windows software, **OPC1132** 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker, **UT108** DTMF decoder unit, **V8000MMB** Mobile bracket

DUAL BAND MOBILE

IC-208H 2M/440 Dualband Mobile – More power, wider receive, and lots of memory. Covers 144-148 and 430-450 transmit with 118-173, 230-549, 810-999 MHz (cell blocked) wide band receive Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alphanumeric memory channels; Improved Dynamic Memory Scan (10 banks), 2–100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control mic. included. Dim: 5.56"w x 1.56"h x 7.31"d; 2.65 lbs.. **$329.99**

Available Accessories:
CS208 Windows cloning software, **MB17A** Quick release bracket, **MB58** Remote controller bracket, **MB65** Mounting base platform, **OPC1132** 9.8' DC cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **OPC601R** 23' separation kit, **SP10** Slim-line external speaker

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

DUAL BAND MOBILE

IC-2720H 2M/70cm FM Transceiver – Provides VHF/VHF, UHF/UHF simultaneous receive along with VHF/UHF full duplex. Covers 144–148 & 430–450 MHz transmit with 118–550 MHz, 118–174, 375–550 & 810–999 MHz receive (cellular blocked), includes AM Aircraft band and Weather channel with Alert. Power: 50/35W (2M/70cm); 212 memories (10 banks), 2 call, 10 scan edges; Auto repeater offset; Backlit remote control microphone; Independent controls for each band; 12 DTMF memories; Selectable Amber/Green display; CTCSS/DTCS encode/decode, tone scan and pocket beep; Dynamic memory scan; 1200/9600 bps 6-pin terminal connector; PC programmable with optional software and cable. Dimensions: 5.5"w x 2"h x 1.1"d; 5.29 oz. (head unit), 5.5"w x 1.6"h x 7.4"d; 3.08 lbs. (main unit)..... **$399.99**

Available Accessories:

CS2720 Windows/DOS cloning software, **MB17A** Quick release bracket, **MB65** Mounting base platform, **MB84** Remote controller bracket, **MB85** Combination bracket, **OPC1132** 9.8' DC cable, **OPC1156** 11.5' separation cable, **OPC347** 23' DC power cable, **OPC440** 16.4' mic extension cable, **OPC441** 16.4' Speaker Extension Cable, **OPC474** Radio-to-radio cloning software, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC589** 8-pin mic jack adapter cable, **SP10** Slim-line external speaker

D-Star System

D-Star is a 128K open protocol data system combining analog and digital into a seamless communications network at 1.2 and 10 GHz. For example, while in a vehicle, visually communicate what is happening simply by e-mailing a photo or live video. Icom is the first to introduce products for this innovative communication system. There are repeater and backbone components, and the ID-1 transceiver can be configured as a mobile or base station. Open protocol TCP/IP structure; Digital voice and data capability; Data 128K (130 kHz bandwidth); ATM multiplex (on the backbone); Multi-site capability with high speed microwave backbone 10Mbps; Internet interface capability; Repeaters handle both digital and analog voice.

ID-1 10W 1.2 GHz FM Digital Transceiver with Control Head – Operates with current analog 1.2GHz repeaters, plus simplex digital operation with another ID-1. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes alphanumeric memories, CTCSS encode/decode and scanning, Full PC control via USB port and supports 10 BASE-T ethernet for 128K data operation **$999.99**

Available Accessories

MB17A Quick release bracket, **OPC1132** 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic. extension cable, **SP10** Slim-line external speaker

ICOM MAIL IN REBATES MAY APPLY

ICOM D-Star Digital Voice & Data

ID-800 2M/440 Dual Bander Analog & Digital Features D-STAR Digital Voice Capability and supports 20 character short text messaging with an on screen display. Detachable control head; wideband receive; Three power settings: 55/15/5W (2 meters), 50/15/5W (440 MHz); Built-in CTCSS decode/encode with tone scan; PC compatible, 9600 BPS packet ready; 500 alphanumeric memories (6 characters), 16 DTMF memories.

Includes: Built-in duplexer; Separation cable; Remote hand microphone; Mobile mounting bracket, power cord and spare fuses **$629.99**

Available Accessories:

CSD800 Cloning software, **MB17A** Quick release bracket, **OPC1132** 9.8' DC cable, **OPC1384** RS232C data cable, **OPC347** 23' DC cable, **OPC440** 16.4' mic. extension cable, **OPC441** 16.4' speaker extension cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC601R** 23' separation cable, **SP10** Slim-line external speaker

HF RADIO

IC-706 MK II-G Compact HF/VHF/UHF All Mode – Base station performance in a mobile sized radio. Covers 160–10M + 6M, 2M and 70cm; with broadband 0.03–200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160–6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; Requires 13.8V DC @ 20A. Dim: 6.6"w x 2.3"h x 7.9"d; 5.5 lbs **$949.99**

Available Accessories

BET 706TUNECONT Better RF IC706 tune control, **AH2B** Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF+6M auto coax antenna tuner, **CR282** Stability crystal, **CT17** Level converter, **FL100** 500 Hz 9 MHz IF CW filter, **FL101** 250 Hz 9 MHz IF CW filter, **FL103** 2.8 kHz 9 MHz IF SSB filter, **FL223** 1.9 kHz 9 MHz IF SSB filter, **FL232** 350 Hz 9 MHz IF CW/RTTY filter, **HM154T** TTP microphone, **LC156** Back pack carrying case, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB65** Mounting base platform, **MB72** Carrying handle, **OPC025D** DC cord, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC598** 23' extension cable for AT180, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **PS125** 25A switching power supply, **RMK706** Remote mounting kit, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP10** Slim-line external speaker, **UT102** Voice synthesizer, **W4R ANTBOSSII** W4RT Interface, **W4R OBPUNIV** Speech compressor

HF QRP RADIO

IC-703 PLUS HF QRP Transceiver – For home, shack, mobile DX'ing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but HF + 6M without VHF/UHF. Built-in, relay-type automatic HF antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options.

Dim: 6.5"w x 2.w"h x 7.875"d; 4.4 lbs **$699.99**

Available Accessories

AH2B Whip with mount, **AH2BWHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AH703** 40/20/15/10/6 20W 4.6' antenna, **BC155A** Battery charger/BP228, **BP228** 9.6V 2800mAh external NiCad, **CT17** Level converter, **FL222** 1.9kHz 455kHz IF SSB filter, **FL257** 3.3kHz 455kHz IF SSB filter, **FL52A** 500Hz 455kHz IF CW filter, **FL53A** 250Hz 455kHz IF CW filter, **HM154T** TTP mic, **LC156** Back pack carrying case, **MB62** Mounting bracket for main unit, **MB63** Mounting bracket for control panel, **MB65** Mtg base platform, **MB72** Carrying handle, **OPC1229** Extra DC cord, **OPC1248** IC703 to PS125 cable, **OPC581** 11.5' separation cable, **OPC587** 16' separation cable, **OPC589** 8-pin mic jack adapter cable, **OPC599** 7+8-pin–13-pin adapter, **OPC742** 13-pin cable, **RMK706** Remote mtg kit, **SM20** Stand mic for base station, **SM6** Electret desk mic, **SP10** Slim-line ext. spkr, **UT102** Voice synthesizer, **W4R OBF703718DIY** CW & SSB Collins Filters

HF RADIO

IC-7000 All band Multimode Mobile Transceiver Covers HF/6M/2M/440 MHz with .03-199 MHz RX; 503 alpha memories; Power: 100W (HF+6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. A 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; In Center Mode, the scope is centered on the receiving frequency. In Fixed Mode the scope sweeps a fixed range. An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RIT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX, Full break-in CW with adjustable pitch. Comes with backlit remote microphone, spare fuses, key plug and DC power cable. Requires 13.8VDC @ 22A.

Dim: 6.56"w x 2.59"h x 7.09"d; 5.1b **$1499.99**

Available Accessories:

AH2B 40-6M whip with mount (use tuner), **AH2B WHIPONLY** Extra whip only for AH2B, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF-6M auto coax antenna tuner, **CT17** Level converter, **HM154T** TTP Mic., **LC156** Back pack carrying case. **MB105** Remote head bracket, **MB106** Carry handle, **MB62** Main unit mounting bracket, **MB65** Mounting base, **OPC1443** 11.5' remote cable, **OPC1444** 16' remote cable, **OPC1457** DC cable, **OPC589** 8-pin ·microphone jack adapter cable, **OPC598** 23' extenion cable; AT180, **OPC599**, 7+8-pin to 13-pin adapter, **OPC742** 13-Pin cable, **RMK7000** Remote mounting package (MB62/MB105/OPC1443), **SM20** Stand mic. for base stations (OPC-589 required), **SM6** Electret desk microphone, **SP10** Slim-line external speaker, **W4R ANTBOSSII** W4RT Interface

DIGITAL IF FILTERS
No optional filters to buy! All the filters you want are at your fingertips. Simply dial-in the width you want and select sharp or soft shapes for SSB and CW modes.

AGC LOOP MANAGEMENT
The digital IF filter & manual notch filter are included in the AGC loop, so you won't have AGC pumping.

35W OUTPUT IN 70CM BAND
High power MOS-FET amps supply 35W output power in 70CM band as well as 100W in HF/50MHz bands and 50W in 2M.

HIGH STABILITY CRYSTAL UNIT
The 7000 incorporates a high-stability master oscillator, providing 0.5ppm (-0°C to +50°C). A must for data operation!

DIGITAL VOICE RECORDER (DVR)
The DVR makes portable contesting or mini-DXpeditions a breeze! Record your callsign, CQ, or other information in 4 transmit playback memories with alphanumeric labels. Record incoming signals for up to 25 minutes, too!

DDS (DIRECT DIGITAL SYNTHESIZER) CIRCUIT
Icom's new DDS circuit improves C/N ratio, providing clear, clean transmit signal in all bands.

USER-FRIENDLY KEY ALLOCATION
Eight of the most used radio functions – such as NB, NR, MNF, and ANF – are controlled by dedicated function keys. Those keys are grouped around the display for easy visibility.

TWO POINT MANUAL NOTCH FILTER
Pull out the weak signals! Apply 70dB of rejection to two signals at once!

Conquer the world, one mini-DX at a time!

Makes ham radio so much fun, you'll never want to leave the car again. Or your home. The 7000 is ideal as a mobile or base station. So much power and so many features, yet such a small footprint. Must be an Icom. Visit AES today and start conquering the world.

HF/6M @ 100W (40W AM), 2M @ 50W (20W AM), 70CM @ 35W (14W AM) • DSP² - Dual DSP Processors • Digital IF Filters • Twin Pass Band Tuning • Multiple AGC Loops • MNF² - Dual Manual Notch Filters

For the love of ham radio.

ICOM®

©2006 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 8289

Get "Back to Basics" with YAESU's New FM Dual Band Mobile
One-Touch Operation / Wide Receiver Coverage Included

High Power Output
(50 W VHF/40 W UHF)

Wide Receiver Coverage
including AM Aircraft Reception,
NOAA Weather Alert Broadcasting* *USA Version

Five One-Touch "Hyper Memory"
Transceiver Configuration Keys

Over 1000 Memory Channels
with Alpha-Numeric Labels,
Twenty Memory Groups

WiRES™ Internet Linking Compatibility

144/430MHz DUAL BAND

ACTUAL SIZE
*Simulated LCD display

YAESU FM Mobile Series

QUAD BAND DUAL RECEIVE

FT-8900R 29/50/144/430MHz QUAD BAND
29/50/144/430 MHz FM QUAD BAND TRANSCEIVER

DUAL BAND DUAL RECEIVE

FT-8800R 144/430MHz DUAL BAND
144/430 MHz FM DUAL BAND TRANSCEIVER

DUAL BAND

FT-7800R
144/430 MHz DUAL BAND
FM TRANSCEIVER

YAESU
Choice of the World's top DX'ers

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

For the latest Yaesu news, visit us on the Internet:
http://www.vxstdusa.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

SINGLE BAND MOBILES

YAESU

FT-1802M 50W 2M FM transceiver – Extended receive 136–174 MHz (includes a 10 channel NOAA weather bank); 221 memories with eight banks and Alpha-numeric labeling; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry.
Dim: 5.6"w x 1.6"h x 5.8"d; 2.6 lbs..... **Call/Web**
Available Accessories:
ADMS1802 Programming software, MLS100 Mobile speaker

FT-2800M 2M FM Transceiver – Cool, quiet, and ruggedly-built. Utilizes a Ultra-high Dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137–174 MHz receive. Includes Weather with Alert and 221 memories. Power: 65/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready.
Dim: 6.3"w x 2.0"h x 7.3"d; 4 lbs..... **Call/Web**
Available Accessories:
ADMS2J Programming software, MLS100 Mobile speaker, S8002051 Extra mobile bracket, S8101436 Extra DC cable

DUAL BAND MOBILES

FT-7800R 2M/440 MHz FM Mobile – Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater, or satellite operation on both bands, without the need for cross-band repeat capability. Covers 144-148 & 430-450 MHz transmit with 108–520 & 700–999 MHz (cell blocked) receive. Power: 50W (2M), 40W (430 MHz); N.O.A.A. weather alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; Illuminated keypad and microphone keys; WIRES™ capability.
Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs..... **$264.99**
Available Accessories:
ADMS2K Programming software, CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021715 Extra DC cable, YSK7800 Remote separation kit

FT-8800R Dualband FM Mobile – Easy operation, outstanding receiver performance, and crossband repeat capability, the 8800R is the new standard of comparison. Covers 144-148 & 430-450 MHz transmit with 108–520 & 700-999 MHz (cell blocked) wide coverage receive (keep informed in the Public safety, Commercial, Aircraft, and Government ranges); Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories" (complete sets of transceiver configurations); Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; Cross-band repeat capability; One-touch band pattern; CTCSS/DCS (50/104 tone); User-program mic keys; Convenient remote-head mounting capability (optional kit required).
Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs ..... **Call/Web**

QUAD BAND MOBILE

FT-8900R Quad Band FM Mobile – National or World-wide FM communications from a vehicle. Covers 28-29.7, 50-54, 144-146, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz); FM satellite operation; Over 800 memories; DTMF auto-dial memory; One-touch band-pattern "Hyper-Memory," allows set up and storage of complete transceiver configuration settings. Saves button pushing! CTCSS and DCS encode/decode; Smart-Search™ auto memory loading; Cross band repeat; Independent, 2-channel, dual receive and full duplex (separate volume and squelch controls, as well as S-meters); Built-in duplexer; WIRES™ compatible; RF squelch; Auto repeater shift; ARTS™ capable; User-programmable microphone keys; Easy set up for FM satellite operation; Battery voltage meter; Time-out timer; Automatic power off; Large, easy-to-read LCD display; 1200/9600 bps packet; Thermal-sensored cooling fan; Remote head mounting capability.
Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs ..... **Call/Web**
Available Accessories for FT-8800R & FT-8900R:
ADMS2H Programming software (8900R), ADMS21 Programming software (8800R); CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, MMB62 Remote control panel bracket, T9021810 Extra DC cable, YSK8900 Remote separation kit

ALINCO
AMATEUR RADIO'S VALUE LEADER™

SINGLE BAND HANDHELDS

DJ-196T 2 Meter FM HT 5W output; 130–174 MHz receive; 40 multi-function memory channels; MARS/CAP capability; Alpha-numeric display; CTCSS tone encode/decode & DCS; S-meter; Auto dialer; Cable cloning; Computer programming capability; Theft alarm; Experimental insect repeller; Back lit keypad. Dim: 4.9"h x 2.2"w x 1.6"d; 13.2 oz **$119.99**

DJ-296T 220 HT – Same as above except has a range of 222-225 MHz. **$149.99**

DJ-496T 440 HT – Same as above except has a range of 430-450 MHz. **$149.99**

Available Accessories
EBP50N 9.6V 700mA 5W NiMH battery, EBP51N 9.6V 1500mA 5W NiMH battery, EBP56N 7.4V 1000mAh lith-ion battery, EDC111 Charger for EBP56N, EDC16B Cigarette lighter cable and filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC93 Wall charger with power supply, EDC97 NiMH quick charger, EDH30 Dry cell battery case, EME12 Headset/earphone/mic with VOX, EME13 Headset/earbud/mic with VOX, EME15 Earphone/mic with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC cable, ESC36 Soft case for EBP48N

DJ-S11T Miniature VHF HT – TX/RX: 144–148 MHz; 340mW output; 20 multi-function memories plus 1 call; Encoder installed; Illuminated display; Uses 3 "AA" or NiCad batteries; Pivoting antenna. Comes with wrist strap, antenna and belt clip. Dim: 4"h x 2"w x 1"d; 6.5 oz..... **$79.99**

Available Accessories
EDC78 Wall charger (not alkaline), EDH18 12V/5.5V DC cigarette lighter plug, EME12 Headset/earphone/mic w/VOX, EME13 Headset/earbud/mic w/VOX, EME15 Ear-phone/mic w/VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic w/volume control, ESC27 Soft case

Our service is second to none.

Give us a call or email us at info@aesham.com with your inquiries.

ALINCO
AMATEUR RADIO'S VALUE LEADER™

VHF SINGLE BAND HANDHELD

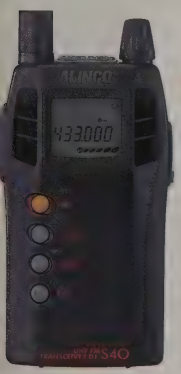
DJ-V17T 2 Meter HT

Alinco combines rugged polycarbonate materials, an ergonomic design and leading edge technology in an attractive, compact 5W VHF HT that is compatible to IPX7 so it's submersible 3ft. for 30 minutes! And unlike water-resistant radios you may have looked at before, the DJ-V17 has a large 40mm internal speaker so its audio is clean and crisp, not muffled. The superior speaker design provides 500mW max audio-output for high quality audio. With a full range of features and choice of power options, this tough talker resists rain, dirt and dust. Take it with you when you enjoy outdoor activities such as fishing, camping, snow-sports or volunteer public radio services. TX: 144-148 MHz and RX: 130-173.995 MHz with 5, 10, 12.5, 15, 20, 25 and 30 kHz tuning steps. Features: 200 memories; Backlit alphanumeric display; Direct keypad frequency entry; Scanning; 39 CTCSS tone squelch; 104 DCS digital code squelch; 4 tone bursts; 9 DTMF autodial memories; Time-out timer. Full 5W output and a 500 mW audio amp provides plenty of audio. Comes with AC charger adapter, Ni-MH battery, flexible SMA antenna, belt clip and wrist strap.

Dim: 2.28"w x 3.78"h x 0.57"d; 3.6 oz..... **$139.99**

Available Accessories:

EBP63 7.4V 1100mAh Li-Ion battery, **EBP64** 7.4V 1600mAh Li-Ion battery, **EBP65** 7.2V 700mAh NiMH battery, **EBP66** 7.2V 2000mAh NiMH battery, **EDC144** Rapid charger, **EDH34** Dry cell case, **EDS10** Mic/speaker cable, **EDS11** Clone cable, **ERW4** PC cable, **ESC41** Soft case



UHF SINGLE BAND HANDHELDS

DJ-S40T Pocket-sized UHF HT – Covers 420-450 MHz; 500mW power output or 1W by using optional NiMH or external DC supply. 100 memories; One call channel and several scan modes; 38 CTCSS encode/decode tones and 4 European tone bursts; Large, easy-to-read, illuminated display; External device control feature; Anti-theft alarm and experimental mosquito repelling tone. Comes with AA battery case, belt clip, wrist strap and flexible SMA antenna.

Dim: 2.2"w x 4.0"h x 1.2"d; 3.6 oz **$89.99**

Available Accessories

EBP52N 3.6V 500mAh NiMH battery, **EBP53N** 6V 500mAh NiMH battery, **EBP54N** 3.6V 1500mAh NiMH battery, **EDC105** Drop-in NiMH charger without power supply, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC93** Wall power supply for EDC105, **EDH31** Dry cell battery case, **EME12** Headset/earphone/mic w/VOX, **EME13** Headset/ear bud/mic w/VOX, **EME15** Earphone/mic w/VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic w/volume control, **EMS8Z** Remote speaker mic, **ESC37** Soft case

DJ-S45T 440MHz FM HT

A compact design that offers a full range of features plus a choice of power options in a rugged polycarbonate design that is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz (MARS modifiable). 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Nine tuning steps and 1 MHz shift to quickly tune frequency. Power Output: 2W with 6.0V external DC power source, approx. 1W with special order EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW at 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Advanced Quick Repeater Access mode allows recalling previously set parameters with just 2 key actions regardless of current frequency setting. Unlike other auto-repeater settings that limit the frequency range, these repeater-access parameters can be set separately from the original default parameters. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 cable). SMA port and lightweight flexible whip antenna, Mic/SP/EXT-DC ports. Includes belt clip and handstrap, AA battery case and flexible SMA antenna.

Dim: 2.24"w x 3.86"h x 1.17"d; 5.7 oz.... **$119.99**

Available Accessories

EME6 Earphone, **ERW4** PC Cable, **ESC40** Soft case

DUAL BAND HANDHELDS

DJ-C7T Credit Card Size VHF/UHF Dual Band Micro Handheld

Covers 2M and 440 FM amateur bands and receives wide-band broadcast FM, AM aviation band and VHF/UHF utilities up to 512 MHz. TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source. 200 memory channels; 5 pairs of program scan band; Priority watch; 3 types of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; TSQ and 4 European burst tones standard; Programmable shift width and direction; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning; Battery saver; Auto Power off.

Dim: 2.3"w x 3.8"h x 0.57"d; 3.6 oz **$169.99**

Available Accessories

EBP58N Lithium-ion battery, **EDH32** Cigarette lighter cable, **EME18** Earphone, **EME24** Earphone/microphone, **EME25** Curl cord earphone, **EMS60** Speaker/microphone, **ERW4** PC cable, **ESC38** Soft case

DJ-596T MK II 2M/440 MHz Dual Band HT – The first Amateur HT to support optional Digital Voice communications. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; Extended receive capabilities; CTCSS and DCS encode and decode; Three scan modes; Work and save in memory any number of "odd split" transmit and receive offsets; Illuminated keys and display; Large display shows alphanumeric designations for each of the 100 memories; Theft alarm and experimental "mosquito repelling tone"; 9 autodial memories; ± 2.5ppm crystal; External terminal control can output 5 VDC @ 5mA from mic jack, can be used by experimenters to control external devices; Operates on 6-16VDC, battery charges while on external source.

Dim: 4.9"h x 2.2"w x 1.6"d; 13.2 oz **$209.99**

Available Accessories

EBP50N 9.6V 700mAh 5W NiMH battery, **EBP51N** 9.6V 1500mAh 5W NiMH battery, **EBP56N** 7.4V 1000mAh lithion battery, **EDC111** Charger for EBP56N, **EDC16B** Cigarette lighter cable and filter, **EDC36** Angle plug power cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC88** Rapid charger, **EDC93** Wall charger with power supply, **EDC97** NiMH quick charger, **EDH30** Dry cell battery case, **EJ47U** Digital board, **EME12** Headset/earphone/mic with VOX, **EME13** Headset/ear bud/microphone with VOX, **EME15** Earphone/microphone with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **ERW4** PC cable, **ESC36** Soft case for EBP48N, **SW596** Windows programming software

DJ-V5TH VHF/UHF Dual Band FM HT – Full 2 meter and 440 Amateur band coverage. Standard high-power 700 mAh NiCad battery pack – up to 5W output; 3 output settings; Expandable receive range 76–999 MHz (cellular blocked), includes wide FM capability; Split-band operation capability; Eight different tuning steps; Alpha-numeric display – up to 6 characters; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 different European tone bursts; 4 scan modes and 5 programmable scan banks; MARS and CAP capability; Auto-dial memories; Auto high temperature protection feature; SMA connector; Wire cloning capable; Accepts up to 13.8V DC input.

Dim: 4.5"h x 2.25"w x 1.75"d; 13 oz..... **$209.99**

Available Accessories

EBP46N 9.6V 600mAh 5W NiCad battery, **EDC16B** Cigarette light cable with filter, **EDC36** Angle plug power cable with filter, **EDC37** 13.8V power cable, **EDC43** Cigarette lighter cable, **EDC91** Quick charger, **EDH29** Dry cell battery case, **EME12** Headset/earphone/microphone with VOX, **EME13** Headset/ear bud/microphone with VOX, **EME15** Earphone/microphone with VOX, **EME20** Tie-pin mic/earphone, **EME6** Earphone, **EMS47** Speaker mic with volume control, **EMS8Z** Remote speaker mic, **ESC35** Soft case for EBP45N/46N

KENWOOD

SINGLE BAND HANDHELD

TH-K2AT 2M FM HT 5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; PC programming; Charges 3x faster than previous models with its high-capacity NiMH battery.
Dim: 5"h x 2.4"w x 1.1"d; 12.5 oz..... **$139.99**

Available Accessories
BT14 Six "AA" battery holder, **EMC3** Lapel clip mic/earphone PC, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **KSC24** Rapid charger, **PB43N** 7.2V 1100mAh NiMH battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4Y** 9 pin programming cable, **SC54** Soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

TRIBAND HT

TH-F6A FM Triband HT Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; Ferrite bar antenna for receiving AM broadcast; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; Multiple scanning functions; 5W output with 7.4V lithium-ion battery; Extended operation; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Automatic simplex checker; Wireless remote control function; ATT (attenuator) on/off; Battery indicator; Internal VOX; MCP programming software via www.kenwood.net (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, flexible SMA antenna, hand strap, PB-42L 7.4V 1550mAh lithium-ion battery pack, AC adapter.
Dim: 3.4"h x 2.3"w x 1.2"d; 8.8 oz **$329.99**

Available Accessories
BT13 AA battery case, **EMC3** Lapel clip mic/earphone PC, **HMC3** VOX/boom mic headset, **KHS21** Boom mic headset, **PB42L** 7.4V 1550mAh lith-ion battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4Y** 9 pin programming cable, **SC51** Softcase with swivel belt clip, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

AvMap Ready

DUAL BAND HANDHELD

TH-D7A(G) 2M/440 MHz **Dual Band Data Communicator** – Equipped with a built-in TNC for simple packet operation or with a GPS as a APRS™ station that reports position, speed and heading as well as calculation of distance to destination. Use for APRS™ messaging to send up to 45 characters without a PC. Power: 5.5W output @ 13.6V DC; Coverage: (**2M**) TX: 144–148 MHz, RX: 118–174 MHz, (**440 MHz**) TX: 430–450 MHz, RX: 400–480 MHz. 200 memories; Station list stores data in up to 40 memory channels; 1200 & 9600 baud TNC; Grid square locator display; Dual receive on same band for voice and data (VHF only); PC programmable for frequency and name (PG-4W required); 16 backlit keys; CTCSS encode/decode; MIL-SPEC 810C/D/E water resistant; 10 channel DTMF phone and auto patch memories; TM-V7A and TM-742D DTMF remote; Altitude; Time; 3-position memory; Audible emergency signal; Auto message response; Data band settings.
Dim: 4.7"h x 2.3"w x 1.5"d; 12 oz..... **$329.99**

Available Accessories
BC19 Rapid charger, **BT11** Four "AA" battery holder, **EMC3** Lapel clip mic/earphone PC, **HMC3** VOX/boom mic headset, **J29063113** Extra belt clip, **PB39** 9.6V 600mAh 5W battery, **PG2W** DC cable, **PG3J** Cigarette cord with filter, **PG4W** PC software and cable, **SC47B** Black soft case, **SC47OR** Orange soft case, **SMC32** Mini right angle speaker mic, **SMC33** Speaker mic with remote control, **SMC34** Speaker mic with volume function keys, **WR2** Water resistant bag

POPULAR ACCESSORIES

SMC-34 SMC-33 EMC-3

SMC-32 HMC-3

SMC-34 Speaker mic with 3 function keys & volume control..... **$32.99**
SMC-33 Remote control speaker mic..... **$65.99**
SMC-32 Speaker microphone..... **$52.99**
EMC-3 Clip microphone w/earphone..... **$24.99**
HMC-3 Head set (VOX & PTT)..... **$48.99**
MORE KENWOOD ACCESSORIES IN PRICE GUIDE

ICOM MAIL IN REBATES MAY APPLY

ICOM

SINGLE BAND HTS

CLOSE OUT!

IC-V8 2M FM HT – None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down and Rotary controls; CTCSS/DTCS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Includes drop-in trickle charger.
Dim: 2.13"w x 5.2"h x 1.4"d; 12.3 oz. C/O **$119.99**
IC-V8 SPORT – Same as above but no battery pack & charger. Comes with AA battery case **$99.99**

Available Accessories
AD101 Battery adapter for BP211 and BC119N01, **AD9411** Adapter cup for BC119N01, **BC119N01** Desk charger, **BC144N** Rapid Desk Charger, **BC14401** Desk Charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAh 5.5W battery, **BP210N** 7.2V 1650mAh 5.5W battery, **BP211N** 7.4V 1800mAh Li-ion battery, **BP222N** 7.2V 600mAh 5.5W battery, **CP17L** Right angle cigarette cable for charger, **CSV8** Cloning software, **HM128L** Earphone + mic, **HM158L** Rectangle speaker/mic/earphone jack/clip, **HM46L** Slim-line speaker mic with right angle plug, **HM54** Heavy-duty speaker mic, **HM75A** Remote control mic, **HS51** Headset/VOX, **HS94** Earpiece headset, **LCF3GSWIVEL** Leather case with swivel, **MB103** Spring loaded belt clip for N-Series battery, **MB74N** Spring loaded belt clip, **MB86** Swivel belt clip, **MB87** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **OPC515L** Right angle DC cable for charger, **SP13** Earphone, **UT108** DTMF decode unit, **VS1L** Right angle VOX-PTT unit for HS94

D-Star Capable

IC-V82 2M High Power Digital Capable Handheld – 7W output @ 7.2V DC; 6.0 - 10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice and slow data comm. (20-character short data message, digital code squelch, EMR comm., digital pocket beep, Stand-by beep); Built in CTCSS/DTCS; Auto low power/power saver (30mA drain); 200 memories (10 memory banks); VHF/UHF air band receive; Auto repeater function; Backlit display; PC cloning capability; NOAA weather channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included.
Dim: 2.1"w x 5.5"h x 1.4"d; 13.8 oz..... **$129.99**
IC-U82 – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W..... **$169.99**

Available Accessories
BC144N Rapid desk charger, **BP208N** Battery case, **BP209N** 7.2V 1100mAh 5.5W battery, **BP210N** 7.2V 1650mAh 5.5W battery, **BP211N** 7.4V 1800mAh lith-ion battery, **BP222N** 7.2V 600mAh 5.5W battery, **CSV82** cloning software, **HM128L** Rectangle plug earphone + mic, **HM158L** Rectangle speaker/mic/ear-jack/clip, **HM46** Slim-line speaker, **HM54** Heavy duty speaker, **HM75A** Remote control mic, **HS85** Headset w/VOX, **HS94** Earhook headset w/boom mic, **MB103** Spring belt clip, **MB86** Swivel belt clip, **OPC474** Cloning cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **SP13** earphone, **UT108** DTMF decoder unit, **UT118** D-Star Digital unit (digital voice and data capability at 4.8kbps), **VS1L** PTT/VOX unit

ICOM

DUAL BAND HTS

IC-T7H 2M/440 MHz **Dual Band HT** – 5W with standard 9.6V/650mAh battery or up to 6W @ 13.5VDC (optional DC power cable required); TX: 144-148 MHz & 440–450 MHz; RX: 118–174 MHz & 400–470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; Wall charger; PC Programmable.
Dim: 2.3"w x 4.8"h x 1.1"d; 14.3 oz. C/O **$199.99**

IC-T7H SPORT – Same as above but no battery pack & charger. Comes with AA battery case. **$169.99**

Available Accessories

AD56 Battery pack adapter/rapid charger, **BC110A** wall charger, **BC119N11** NiCad/NiMH desk charger, **BP170** Battery case, **BP172** 4.8V 950mAh battery, **BP173** 9.6V 600mAh battery, **BP180** 7.2V 600mAh battery, **CP12** Cigarette cable with filter, **CP12L** Right angle cigarette cable with filter, **CSWHH4** Windows software with cable, **FA1443B** 2M/440 duck, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM54** Heavy-duty spkr mic, **HM75A** Remote control mic, **HS10** Boom mic/headset, **HS10SA** VOX unit, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC136** Case for T7H with BP170/171/172, **LC137** Case for T7H with BP173/180, **NCP1** Nylon chest pack, **OPC254L** Right angle mini DC power cable, **OPC474** radio clone cable, **OPC478** PC RS232C cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

IC-W32A 2M/440 MHz **Dual Band HT** – TX: 144-148 & 440-450 MHz; RX: 118-174 & 400-470 MHz; 5W output @ 13.5V DC; 200 memories; 8-character alphanumeric memory identification; Keypad entry; Back-lit display and keypad; HT-to-HT cloning capability or PC programming (optional accessories required); Independent tuning and volume and band controls; VHF/UHF exchange function allows assignment of VHF/UHF band controls to either knob; Meets MIL SPEC C/D/E for shock & vibration.
Dim: 2.25"w x 5.5"h x 1.4"d; 16 oz.. C/O **$289.99**

Available Accessories

AD51 Battery pack adapter/rapid charger, **BC110A** wall charger, **BC119N11** NiCad/NiMH desk charger, **BP170** Battery case, **BP172** 4.8V 950mAh battery, **BP173** 9.6V 600mAh battery, **BP180** 7.2V 600mAh battery, **CP12** Cigarette cable with filter, **CP12L** Right angle cigarette cable with filter, **CSWHH4** Windows software with cable, **CSW32** DOS programming software, **FA1443B** 2M/440 duck, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM54** Heavy-duty speaker mic, **HM75A** Remote control mic, **HS10** Boom mic/headset, **HS10SA** VOX unit, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC128** Carrying case, **NCP1** Nylon chest pack, **OPC254L** Right angle mini DC power cable, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

ICOM MAIL IN REBATES MAY APPLY

DUAL BAND HT

IC-P7A **Dual band HT** Covers 2M and 440 MHz FM. Power Output: 1.5W (2M) & 1.0W (440 MHz). Wideband receive from 495 kHz to 999.99 MHz (less cellular) in AM, FM and FM-W modes. Includes AM/FM/SW broadcasts and Weather Channels with Alert. Memories: 1,000 regular channels, 50 band scan edges and 200 auto memory write channels. The regular memory channels can be grouped into 18 banks of 100 channels. Alphanumerics allow naming channels and banks with 6-digit letters and numbers and can display the channel and bank names for easy recognition. Multiple scanning types, CTCSS and DTCS tones for repeater operation, or tone squelch operation and pocket beep for quiet stand-by. Ergonomically designed and features the minimum number of buttons to provide quick and easy operation. Includes flexible SMA antenna, wrist strap, Li-ion battery pack, rapid 3-hour battery charger and AC adapter.
Dim: 1.85"w x 3.1"h x 1.1"d; 5.64 oz..... **$239.99**

Available Accessories

BP243 3.7V 1800mAh Lith-Ion Battery pack, **CP21LR** Cigarette cable with filter, **CSP7** Windows cloning software, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **LC161** Carrying case, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232 serial cable, **OPC478U** PC USB serial cable, **OPC782** Plug adapter cable, **SP13** Earphone

TRIBAND HT

IC-T90A 6M/2M/70cm **FM Handheld** – Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOS-FET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Pre-programmed with TV frequencies. Unique WX Alert feature constantly checks local active weather station for alert tone. If alert occurs, the HT automatically switches to the WX channel and beeps. 555 alphanumeric memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Over-sized buttons for easy operation. Optional PC software for memory, alphanumeric, scan list and parameter customizing.
Dim: 2.28"w x 3.44"h x 1.16"d; 8.47 oz.. **$259.99**

Available Accessories

AD92SMA SMA – BNC adapter, **BC139** Desk rapid charger, **BP216** AA battery case, **BP217** 7.4V 1300mAh lith-ion, **CP19R** Cigarette cable with filter, **CST90A** Windows cloning software, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM46** Slim-line speaker mic, **HM75A** Remote control mic, **HS85** Headset with VOX, **HS94** Earpiece headset, **LC152A** Carrying case, **MB83** Swivel belt clip, **OPC474** Radio-to-radio clone cable, **OPC478** PC RS232C cable, **OPC478U** PC USB cable, **SP13** Earphone, **VS1** VOX-PTT unit for HS94

NEW

DIGITAL CAPABLE DUAL BAND HT

IC-91A
Digital Upgradable Dual Band HT Transmits on 2 meters and 440 MHz. The "A" band (top) offers wide reception from 495 kHz to 999.990 MHz (excluding cellular) in FM/WFM/AM modes. The "B" band (bottom) receives from 118.000 to 174.000 MHz and 350.000 to 470.000 MHz in FM/FM-N/AM/DV modes. Simultaneous receive of a combination of the "A" and "B" bands allows V/V, V/U and U/U operation. Tuning steps include: 5, 6.25, 8.33 (only in air band), 9 (AM broadcast), 10, 12.5, 15, 20, 25, 30, 50, 100, 125 and 200 kHz. Alphanumeric memories: 1304. Power: 5/0.5W on either band. Analog/Digital upgradable with optional UT-121 Digital Voice Unit. In DV mode, you can record 30 sec. of audio into memory (or 15 sec. into 2 memory slots, or 10 sec. into 3 memory slots). Plays a recorded message (up to 10 sec.) in response to a call directed to the user's callsign. Audio messages can even be forwarded. The DV and Data mode conforms to JARL's D-STAR standard. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger.
Dim: 2.4"w x 4.2"h x 1.5"d; 10.6 oz..... **$369.99**

IC-91AD **Digital Ready Band HT** – The IC-91A with UT-121 DV Unit installed **$524.99**

Available Accessories

AD92SMA SMA - BNC adapter, **BC139** Desk rapid charger, **BP216** AA battery case, **BP217** 7.4V 1300mAh lith-ion, **CP12L** Right angle cigarette cable w/filter, **CP19R** Cigarette cable with filter, **HM128** Earphone + mic, **HM131** Speaker/mic/earphone jack/clip, **HM75A** Remote control mic, **HS85** Headset with VOX, **LC163** Carrying case, **OPC254L** Right angle mini DC power cable, **OPC474** Radio-to-radio clone cable, **OPC782** Plug adapter cable, **RS91** Remote control PC software (RS-232 cable), **SP13** Earphone, **UT121** Digital board for D-Star (IC-91A only)

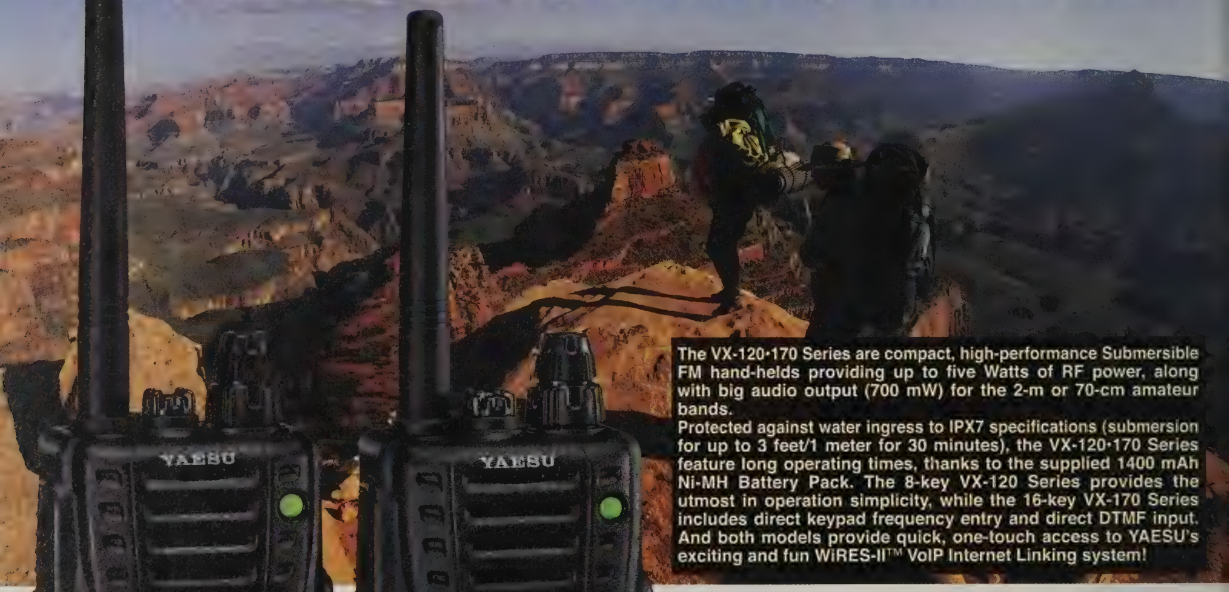
POPULAR ACCESSORIES

HM-75A – Remote control mic..... **$70.99**
HM-131 – Speaker/mic/earphone..... **$38.99**
HS-94 – Ear-piece headset..... **$24.99**
HM-128 – Earphone and microphone . **$25.99**
CP-12L – Right angle cig. cable w/filter. **$36.99**
AD-92SMA – SMA-BNC adapter **$16.99**

MORE ICOM ACCESSORIES IN PRICE GUIDE

Tougher than Tough!

YAESU's rugged new VX-120/170 Series of 2-m or 70-cm Hand-helds aren't just built tough. They're submersible, have a huge, easy-to-read LCD, and they provide big, bold audio (almost 3/4 of a Watt) from the huge internal speaker!



The VX-120·170 Series are compact, high-performance Submersible FM hand-helds providing up to five Watts of RF power, along with big audio output (700 mW) for the 2-m or 70-cm amateur bands.

Protected against water ingress to IPX7 specifications (submersion for up to 3 feet/1 meter for 30 minutes), the VX-120·170 Series feature long operating times, thanks to the supplied 1400 mAh Ni-MH Battery Pack. The 8-key VX-120 Series provides the utmost in operation simplicity, while the 16-key VX-170 Series includes direct keypad frequency entry and direct DTMF input. And both models provide quick, one-touch access to YAESU's exciting and fun WiRES-II™ VoIP Internet Linking system!

FM Mono Band Hand Held Transceiver

VX-120/VX-170 Series

(8 key Version / 16 key Version)

VX-120/170 (VHF) VX-127/177 (UHF)

- 5W FM Transceiver
- Wide Receiver Coverage
- IPX7 Submersible 3 feet (1m) for 30 minutes
- Loud Audio 700 mW via Internal Speaker
- Long Life Battery FNB-83 (7.2 V/1400 mAh) included
- Huge Display (LCD)
- Enhanced Paging and Code Squelch (EPCS)
- CTCSS/DCS included
- Security Password Feature
- Direct Keypad Frequency Entry (VX-170 Series)
- Transmit Time-Out Timer (TOT)
- Automatic Power-Off (APO)
- Automatic Repeater Shift (ARS)
- YAESU's exclusive ARTS™ (Auto-Range Transponder System)
- RF Squelch Circuit
- 200 Standard Memory Channels with 10 Memory Banks
- Alpha-Numeric Labeling of Memories
- Dual Watch (Priority Channel Scanning)
- Emergency Feature
- Smart Search Memories

IPX7 Submersible 3 feet (1m) for 30 min. | Huge LCD | Big 700 mW Audio! | 1400 mAh Long Life Battery

IPX7 Submersible 3 feet (1m) for 30 min.

Waterproofing specifications are assured only when using the genuine YAESU FNB-83 Battery Pack or FBA-25A Battery Holder. The use of after-market batteries or other accessories may compromise the effectiveness of the waterproofing.

YAESU
Choice of the World's top DX'ers™

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

For the latest Yaesu news, visit us on the Internet:
http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

BEST OF THE BEST IN HTs!
ULTRA-RUGGED, SUBMERSIBLE TRI-BAND MAGNESIUM HANDIE

The exciting new YAESU VX-7R sets new standards in ruggedness, water resistance, and versatility, and its memory capacity is unparalleled. Own the VX-7R, and you'll own the best.

IPX7
Submersible
30 minutes @ 3 feet (1 m)

Actual Size

50/144/430 MHz 5W FM Transceiver
VX-7R
Magnesium Silver

50/144/430 MHz 5W FM Transceiver
VX-7R(B)
Black Version Available

Features

- SUBMERSIBLE (3 feet for 30 minutes)
- SHORTWAVE BROADCAST MEMORY BANK
- WEATHER BROADCAST MEMORY BANK WITH "SEVERE WEATHER" ALERT
- MARINE BAND MEMORY BANK
- MULTI-COLOR STROBE LED
- LOW-POWER 222 MHz TX (U.S. version)
- RUBBER CASE PROTECTOR
- TRUE DUAL RECEIVE (V+V/U+U/V+U/HAM+GEN)
- WIDE-RANGE RECEIVER
- MAGNESIUM CASE
- OVER 500 MEMORY CHANNELS
- MIXED TONE (CTCSS/DCS) CAPABILITY
- INTERNET KEY FOR ACCESS TO WIRES
  Wide-Coverage Internet Repeater Enhancement System

For the latest Yaesu news, visit us on the Internet:
http://www.vertexstandard.com

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ers

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

SINGLE BAND HTs

VX-150 2M Ultra-Rugged FM HT – Packed with leading edge features. Designed to perform under the most difficult conditions. Coverage: 144–148 MHz TX, 140–174 MHz RX. 209 memories; 5W output with standard battery; Three power output levels 5/2/0.5W; Wide/Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™ automatic memory loading; 7-Digit alphanumeric memory labels; CTCSS and DCS encode/decode; 9 DTMF auto dial memo Memory bank and preferential memory scanning; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ (auto-range transponder system) function; 1750 Hz tone calling for European repeaters; Programmable menu; Die-cast aluminum case; High output speaker; Battery saver; Auto power off; MIL-STD 810D/E. Comes with FNB-64 7.2V 700mAh NiCad battery pack, flexible SMA antenna, NC-72B wall charger, and belt clip.
Dim: 4.2"h x 2.3"w x 1.1"d; 11.5 oz..... **Call/Web**

Available Accessories

ADMS1F Programming software, **CN3** BNC-SMA adapter, **CT27** Cloning cable, **CT44** 2-pin speaker mic adapter, **CT53** Packet cable, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 "AA" cell battery case, **FNBV57** 7.2V 1100mAh battery, **FNB64** 7.2V 700mAh battery, **LCC150/TT** Leather case, **LCC150S/TT** Leather case/swivel, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and mic, **NC72B** Extra wall charger, **VAC400B** One-hour rapid charger, **VC25** VOX headset

VX-170 2 meter FM handheld – A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. Similar to the VX-150, but has a larger display, double the battery capacity and significantly higher audio output. Receive coverage is from 136 to 174 MHz and 200 alphanumeric memory channels that may be partitioned into as many as 10 memory groups. A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Security password feature protects against unauthorized use. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Comes with FNB-83 7.2V 1400mAh Ni-MH battery pack, flexible SMA antenna, NC-88B wall charger, and belt clip.... **$139.99**

VX-177 – Same as VX-170 but 5W 440 instead of 2M.
Dim: 2.4"w x 4.7"h x 1.3"d; 13.8 oz..... **$149.99**

Available Accessories

ADMSVX170 Programming software for VX-170, **ADMSVX177** Programming software for VX-177, **CD26** Charger cradle, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CT91** Microphone adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 "AA" cell battery case, **FNB83** 7.2V 1400mAh NiMH battery, **MH57A4B** Speaker mic, **VAC370** Rapid charger, **VC24** VOX headset, **VC27** Earpiece/mic

YAESU

DUAL BAND HTs

FT-60R 144/440 MHz FM Dualband HT – Wide RX coverage. Augmenting the transceive on 144/430 MHz, there is RX coverage of VHF/UHF TV, VHF AM aircraft, and more: 108-137, 137-520 and 700-999 MHz (cell blocked). Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W; 1000+ memories with alphanumeric labels; Emergency Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; Two front panel programmable keys; WIRES™ access key; Programmable level RF squelch; Mono-band and memory-only modes; TX time-out timer and auto power-off; Auto repeater shift; Auto-Range Transponder System (ARTS™); NiMH long-life battery and charger. Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400Mah NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip.
Dim: 2.3"w x 4.3"h x 1.2"d; 13 oz..... **$189.99**

Available Accessories

ADMS1J Windows software, **CN3** BNC-SMA adapter, **CT27** Cloning cable/CT27A, **CT44** 2-pin speaker/mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter; plug/wire only, **FBA25** 6 AA cell battery case, **FNB83** 7.2V 1400mAh NiMH battery, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and mic, **VAC370** Rapid charger, **VC25** VOX headset

VX-2R Ultra-compact 144/440 MHz FM HT with Wide Band Receive Powered by FNB-82LI Li-ion 3.7V 1000 mAh battery pack providing 1.5W output on 2M, 1W on 70cm. With EDC-21 external DC power applied (optional), power increases to 3/2W (2M/70cm). Wide RX coverage from 500 kHz to 999 MHz (cell blocked) in AM and FM modes. NOAA weather broadcasts with "severe weather" alert. Over 1300 memories; CTCSS/DCS with "split tone" capability; WIRES™ internet key; DTMF auto-dialer. Priority operation; RF squelch; Automatic Repeater Shift; ARTS™; Busy channel lock-out; Wide/Narrow deviation; Rugged die-cast aluminum chassis. Comes with FNB-82LI battery, NC-85 charger, antenna and belt clip.
Dim: 1.89"w x 3.19"h x 0.91"d; 4.7 oz.... **$174.99**

Available Accessories

ADMS1H Programming software, **CN3** BNC-SMA adapter, **CSC90** Soft case, **CT27** Cloning cable, **CT44** 2-pin speaker mic adapter, **EDC21** DC adapter, **FNB82LI** 3.7V 1000mAh lithium-ion battery, **MH34B4B** Speaker mic, **MH37A4B** Earpiece and microphone, **VC25** VOX headset

TRI-BAND HT

VX-6R 144/222/44(MHz Triple banc Submersible HT – 5W power on 144/440 MHz and 1.5W on 220 Mhz. Wide receive coverage: 504 kHz – 998.990 MHz (cell blocked); 900 memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off! Emergency Automatic ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 222 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1400mAh Li-Ion battery pack, NC-72B 5 hour battery charger, flexible SMA antenna, belt clip, hand strap.
Dim: 2.3"w x 3.5"h x 1.1"d; 9.5 oz..... **$249.99**

Available Accessories

ADMSVX6 Programming software, **CD15A** Charger stand for NC72B, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CSC91** Soft case, **CT91** Mic adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 AA cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **NC72B** Extra wall charger, **SU1** Altitude/barometric pressure sensor, **VC24** VOX headset, **VC27** Earpiece/mic

QUAD-BAND HT

VX-7R Ultra-Rugged, Submersible Magnesium FM Quad-band HT With a full 5W output on 50, 144 and 440 MHz FM, 222 MHz FM band at 300mW. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and meets JIS-7 specification. 500 kHz to 999 MHz continuous receive (cellular blocked); Over 900 memories including 40 memory scan band limit, and 10 weather; Built-in CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponding System; User-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; WIRES™ internet-linking; Comes with FNB-80LI 7.4V 1300mAh lith-ion battery, NC-72B battery charger, dual section belt clip, Black or silver.
Dim: 2.4"w x 3.5"h x 1.1"d; 9.2 oz.

VX-7RB Same but black case ..... each **Call/Web**

Available Accessories

ADMS1G Programming software, **CD15A** Rapid charger for NC72B, **CMP460A** Waterproof speaker/mic, **CN3** BNC-SMA adapter, **CSC88** Soft case, **CT91** Mic. adapter, **EDC5B** DC adapter/filter, **EDC6** DC adapter/plug/wire only, **FBA23** 2 "AA" cell battery case, **FNB80LI** 7.4V 1300mAh lithium-ion, **MH57A4B** Speaker/mic, **NC72B** Extra wall charger, **Q3000185** Replacement duck, **SU1** Altitude/barometric pressure sensor, **VC24** VOX headset, **VC27** Earpiece/mic

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

HF RADIOS														
MAUFACTURER	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD	KENWOOD	KENWOOD
MODEL	DX-70TH	DX-77T	IC-703PLUS	IC-706MkIIG*	IC-7000*	IC-718	IC-746PRO	IC-756PROIII	IC-7800	TS-2000, TS-B2000 TS-2000X, TS-2000LE	TS-480HX*	TS-480SAT*	TS-570D(G)	TS-570S(G)
BANDS	HF, 6M	HF	HF, 6M	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF	HF, 6M, 2M	HF, 6M	HF, 6M	HF, 6M, 2M 70CM, 1.2GHz*	HF, 6M 60M	HF, 6M 60M	HF	HF, 6M
RX RANGE (Mhz)	0.15-30 50-54	0.5-30	0.03-30 30-60	0.03-200 400-470	0.03-199 400-470	0.03-30	0.03-60 108-174	0.03-60	0.03-60	0.03-60, 142-152 420-450 1240-1300*	0.03-60	0.03-60	0.5-30	0.5-30 50-54
POWER (SSB/CW/FM)	10-100W	10-100W	10/5W	5-100 HF/6M 5-50 2M 2-20 70CM	2-100 HF/6M 2-50 2M 2-35 70CM	5-100W(4)	5-100W	5-100W	5-200W	100W HF/6/2M 50W 70CM 10W 1.2GHz*	200W HF/6M	100W HF/6M	5-100W	5-100W
POWER (AM)	4-40W	4-40W	2/4W	2-40W HF/6M 2-20W 2M 2-8W 70CM	1-40W HF/6M 2-20W 2M 2-14W 70CM	2-40W	5-40W	5-40W	5-50W	25W HF/6/2M 12.5W 70CM 2.5W 1.2GHz*	5-50W	5-25W	5-25W	5-25W
DSP	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TUNER	OPTIONAL	OPTIONAL	YES	OPTIONAL	OPTIONAL	OPTIONAL	YES	YES	YES	YES	NO	YES	YES	YES
KEYER	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	NO	NO	OPTIONAL	OPTIONAL	YES	OPTIONAL	OPTIONAL	OPTIONAL	YES	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
VOX	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER REQUIREMENT	12VDC 25A	12VDC 20A	9-15.8VDC 2/3A	12VDC 20A	12VDC 22A	12VDC 20A	12VDC 23A	12VDC 23A	BUILT-IN	12VDC 20.5A	12VDC 41A	12VDC 20.5A	12VDC 20.5A	12VDC 20.5A
ANTENNA PORTS	2(1)	1	1	2(2)	2(2)	1	3(3)	2	4	5	2	2	2	2
COMPUTER PORT	NO	NO	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	RS-232	RS-232	RS-232	RS-232	RS-232	RS-232
HEIGHT (IN)	2.3	3.7	2.3	2.3	2.59	3.75	4.7	4.3	5.9	3.75	2.4	2.4	3.8	3.8
WIDTH (IN)	7	9.8	6.56	6.6	6.56	9.44	11.3	18.3	16.6	10.63	7	7	10.6	10.6
DEPTH (IN)	9	9	7.87	7.9	7.09	9.4	12.5	11.2	17.1	12.5	10.2	10.2	10.7	10.7
WEIGHT (LBS)	6	8.4	4.4	5.5	5.1	8.4	19.5	21	55	17.19	8.15	8.15	15	15

* Remotable control head
* Optional module required for TS-2000, B and LE versions
(1) One port for HF; one port for 6M
(2) HF/6M one port, 2M/440MHz second port
(3) Two ports for HF, one dedicated for 2M
(4) No FM
(5) On internal batteries: 20W (10W on 70cm)
(6) On internal batteries: 5W (2.5W on 70cm)

HF RADIOS													
MAUFACTURER	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	MFJ	YAESU	YEASU	YAESU	YAESU	YAESU
MODEL	9015	9020	9030	9040	9410X	9420X	9440X	9475X	FT-817ND	FT-857D	FT-897D	FT-2000	FTDX-9000 SERIES
BANDS	15M	20M	30M	40M	10M	20M	40M	75M	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M 2M, 70CM	HF, 6M	
RX RANGE (Mhz)	21-21.2	14-14.075	10.1-10.15	7.0-7.5	28.3-28.6	14.15-14.35	7.15-7.3	3.75-4	0.1-56 76-154 420-470	0.1-56, 76-108 118-164 420-470	0.1-30 118-164 420-470	0.3-60	
POWER (SSB/CW/FM)	5W CW	5W CW	5W CW	5W CW	20W SSB PEP	20W SSB PEP	12W SSB PEP	12W SSB PEP	5W SSB/CW/FM	100W HF 50W 2M 20W 70CM	100W HF/6M(5) 50W 2M 20W 70CM(5)	100W	
POWER (AM)	NO	NO	NO	NO	NO	NO	NO	NO	1.5W	25W HF 12.5W 2M 5W 70CM	25W HF/6M(6) 12.5W 2M(6) 5W 70CM(6)	2-25W	
DSP	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	
TUNER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	
KEYER	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	
SPEECH READOUT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
VOX	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	
POWER REQUIREMENT	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 2A	12VDC 22A	12VDC 22A	12VDC 22A	
ANTENNA PORTS	1	1	1	1	1	1	1	1	2	2(5)	2(5)	2	
COMPUTER PORT	NO	NO	NO	NO	NO	NO	NO	NO	CT-62 REQUIRED	CT-62 REQUIRED	CT-62 REQUIRED	RS-232	
HEIGHT (IN)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.5W	2	3.14	5.3	
WIDTH (IN)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.3	6.1	7.9	16.1	
DEPTH (IN)	6	6	6	6	6	6	6	6	6.5	9.2	10.3	13.8	
WEIGHT (LBS)	2	2	2	2	2	2	2	2	2.6	4.6	6.6	32	

See pages 39 & 40 or go to Yaesu's Website: WWW.YAESU.COM

Links to Manufacturer's Websites at aesham.com

SINGLE BAND MOBILES														
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	MFJ	MFJ	MFJ	MFJ	YAESU	YAESU
MODEL	DR-M06TH	DR-135TMKII, TPMKII	DR-235T	DR-435TMKII	IC-2200H	IC-V8000	ID-1	TM-271A	8621	8621X2	9402X	9406X	FT-1802M	FT-2800M
TX RANGE (MHz)	50-54	144-148	222-224.995	430-449.995	144-148	144-148	1240-1300	144-148	145.01	144.39	144-144.3	50-50.3	144-148	144-148
RX RANGE (MHz)	40-60[1]	118-174	216-279.995	350-511.995	118-174	136-174	1240-1300	136-174	145.01	144.39	144-144.3	50.3	136-174	137-174
AIRCRAFT RX	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	20/1W	50/10/5W	25/10/5W	35/10/5W	65/25/10W	75/25/10/5W	10/1W	60/25W	5W	5W	7W SSB	10W SSB	50/25/10/5W	65/25/10/5W
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	NO	NO	YES	YES
TONE ENCODE	YES	YES	YES	YES	YES	YES/DCS	YES	YES	NO	NO	NO	NO	YES	YES
TONE DECODE	EJ-20U	YES	YES	YES	YES	YES/DCS	YES/DTCS	YES/DCS	NO	NO	NO	NO	YES/DCS	YES/DCS
MEMORIES	100	100	100	100	207	207	100	200	0	0	0	0	221	221
ALPHANUMERIC	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES
PC PROGRAMMABLE	NO	NO	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO
13.8V DC@	5A	11A	8A	10A	15A	15A	7A	13A	>1A	>1A	2A	3A	10A	10A
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	N	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239
HEIGHT (IN)	1.6	1.6	1.6	1.6	1.6	2	6	1.7	1.5	1.5	2.5	2.5	1.6	2
WIDTH (IN)	5.5	5.6	5.6	5.6	5.5	5.9	2	6.3	5	5	6.5	6.5	5.6	6.3
DEPTH (IN)	4.5	6.9	6.9	6.9	7.1	5.9	2	5.4	5	5	6	6	5.8	7.3
WEIGHT (LBS)	1.5	2.3	2.3	2.3	2.75	2.22	2.6	2.6	0.8	0.8	2	2	2.6	2

(1) Requires keyboard modification
(2) There are gaps in non-voice or data portions in certain bands
(3) 2 Piece configuration only
(4) Control head separate from body
(5) AM aircraft receive mode
(6) Manufactuer only guarantees specs within the ham bands
(7) FT-8900R includes 10M/6M as well
All radios are cellular blocked

Links to Manufacturer's Websites at aesham.com

MULTI BAND MOBILES											
MANUFACTURER	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD	YAESU	YAESU	YAESU
MODEL	DR-620T	DR-635T	ID-800	IC-208H	IC-2720H	TM-D700A[4]	TM-G707A	TM-V708A[4]	FT-7800R	FT-8800R	FT-8900R
TX RANGE (Mhz)[6]	144-148 430-450	144-148 430-450	144-148 420-450	144-148 440-450	144-148 430-450	144-148 438-450	144-148 438-450	144-148 438-450	144-148 430-450	144-148 430-450	28-29.7, 50-54 144-148 430-450
RX RANGE (Mhz)[6]	87.5-108 (WFM) 108-174 335-480	87.5-108 108-174[5] 335-480	118-173 230-549 810-999	118-174(5) 230-550 810-999	118-550 (LEFT) 118-174, 375-550 810-999 (RIGHT)	118-470 (A BAND)[2] 136-175, 300-524 800-1300 (B BAND)[2]	118-174 410-524[5]	118-470 (A BAND)[2] 136-175, 300-524 800-1300 (B BAND)[2]	108-520 700-999	108-520 700-999	28-29.7, 50-54 108-180 320-480, 700-985
SINGLE OR DUAL RX	DUAL	DUAL	SINGLE	SINGLE	DUAL	DUAL	SINGLE	DUAL	SINGLE	DUAL	DUAL
POWER (2M)	50/35/10/5W	50/25/5W	55/15/5W	55/15/5W	50/20/5W	50/10/5W	50/10/5W	50/10/5W	50/20/10/5W	50/20/10/5W	50W[7]
POWER (440 MHz)	35/10/5W	35/20/5W	50/15/5W	50/15/5W	35/20/5W	35/10/5W	35/10/5W	35/10/5W	40/20/10/5W	35/20/10/5W	35W
MEMORIES	200	200	500	500	212	200	180	200	1000	1000	900
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE DECODE	DCS	YES	DCS	YES	DCS	YES	YES	YES	DCS	DCS	DCS
DUPLEXER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CROSS-BAND REPEAT	NO	YES	NO	NO	YES	YES	NO	YES	NO	YES	YES
ALPHANUMERIC	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES
SEPARABLE	YES	YES	YES	YES	YES[3]	YES	YES[3]	YES[3]	YES	YES	YES
HEIGHT (IN) (HEAD)	5.51	5.5	5.6	1.6	1.6 (2)	1.6 (2.4)	1.6	1.6 (2.4)	1.6	1.6	1.6
WIDTH (IN)	1.57	1.6	1.6	5.6	5.5 (5.5)	5.5 (5.5)	5.5	5.5 (5.5)	5.5	5.5	5.5
DEPTH (IN)	7.28	7.3	7.3	7.3	7.4 (1.1)	7.7 (1.3)	7.4	7.7 (1.3)	6.6	6.6	6.6
WEIGHT (LBS)	2.2	2.2	2.65	2.7	3 (5.3)	2.6 (0.4)	2.7	2.6 (0.4)	2.2	2.2	2.2

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

SINGLE BAND HANDHELDS														
MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	YAESU	YAESU	YAESU
MODEL	DJ-196T	DJ-296T	DJ-496T	DJ-S11T	DJ-V17T	DJ-S40T	DJ-S45T	IC-V82	IC-U82	IC-V8*	TH-K2AT	VX-150	VX-170	VX-177
BAND	2M	220MHz	440MHz	2M	2M	440MHz	440MHz	2M	440MHz	2M	2M	2M	2M	440MHz
RX RANGE (MHz)	136-174	222-225	430-450	144-148	130-174	425-450	420-474	136-174	400-479	136-174	136-174	140-174	137-174	420-470
AIRCRAFT RX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	5W	5W	5W	340mW	5W	500mW	1W	7W	5W	5.5W	5W	5W	5W	5W
TOUCH-TONE PAD	YES	YES	YES	NO	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES
TONE ENCODE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE DECODE	YES (1)	YES (1)	YES (1)	NO	YES (1)	YES	YES	YES	YES	YES (1)	YES (1)	YES	DCS	DCS
MEMORIES	40	40	40	21	200	100	100	200	200	100	100	200	200	200
ALPHANUMERIC	YES	YES	YES	NO	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	NI-CAD	NI-CAD	AA	NI-MH	AA	AA	NI-CAD	NI-CAD	NI-CAD	NI-MH	NI-CAD	NI-MH	NI-MH
PC PROGRAMMABLE	NO	NO	NO	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
ANTENNA CONNECTOR	BNC	BNC	BNC	FIXED(2)	SMA	SMA	SMA	BNC	BNC	BNC	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	4.9	4.9	3.9	4.33	4	3.86	5.5	5.5	5.2	4.4	4.3	4.7	4.7
WIDTH (IN)	2.2	2.2	2.2	2.2	2.28	2.2	2.24	2.1	2.1	2.1	2.4	2.3	2.3	2.3
DEPTH (IN)	1.6	1.6	1.6	1.1	1.43	1.2	1.17	1.4	1.4	1.4	1.1	1	1.2	1.2
WEIGHT (OZ)	13.2	13.2	13.2	6.5	9.9	5.5	5.7	13.8	13.8	12.3	12.5	11.5	13.8	13.8

* SPORT model also avaialable (only AA alkaline case included)
(1) Standard CTCSS plus DCS
(2) Folding ant. attached
(3) Dual operation between Voice & Data
(4) 1.5W on 2M & 1W on 70cm
All radios are cell blocked

Links to Manufacturer's Websites at aesham.com

MULTI BAND HANDHELDS														
MANUFACTURER	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	YAESU	YAESU	YAESU	YAESU
MODEL	DJ-596TMKII	DJ-C7T	DJ-V5TH	IC-T7H*	IC-T90A	IC-W32A	IC-P7A	IC-91A / AD	TH-D7A(G)	TH-F6A	FT-60R	VX-2R	VX-5R	VX-7R / RB
TX RANGE (MHz)	144-148 420-450	144-148 420-450	144-148 438-450	144-148 440-450	50-54 144-148 430-450	144-148 440-450	144-148 430-450	144-148 420-450	144-148 430-450	144-148 222-225 430-450	144-148 430-450	144-148 430-450	144-148 222-225 430-450	50-54, 144-148 222-225 430-450
RX RANGE (MHz)	136-174 400-512	88.1-174 380-512	76-999	118-174 400-470	0.495-999.99	118-174 400-470	0.495-999.99	0.495-999.99	118-174 400-480	0.1-1300	108-520 700-999	0.5-1000	0.5-999	0.5-16 48-730 800-900
SINGLE/MULTI RX	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	DUAL	SINGLE	DUAL	SINGLE(3)	DUAL	SINGLE	SINGLE	SINGLE	DUAL
AIRCRAFT RX	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER OUTPUT	5W	300mW	5W	6W	5W	5W	1.5W(1W/440)	5W	5W	5W	5W	1.5W (1W/440)	5W (1.5W/222)	5W (300mW/222)
MEMORIES	100	200	200	70	555	200	1000	1304	200	435	1000	1300	900	220
CTCSS	ENC/DEC/DCS	ENC/DEC	ENC/DEC	ENC/DEC	ENC/DEC/DCS	ENC/DEC	ENC/DEC	ENC/DEC/DCS	ENC/DEC	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS	ENC/DEC/DCS
TOUCH-TONE PAD	YES	NO	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	YES	YES
ALPHANUMERIC	YES	NO	YES	NO	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES
PC PROGRAMMABLE	YES	NO	NO	YES	YES	YES	YES	PC CONTROL	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	LI-ION	NI-CAD	NI-CAD	LI-ION	NI-CAD	LI-ION	LI-ION	NI-CAD	LI-ION	NI-MH	LI-ION	LI-ION	LI-ION
ANTENNA CONNECTOR	BNC	SMA	SMA	BNC	SMA	BNC	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	3.8	3.8	4.8	3.4	5.5	3.1	4.1	4.7	3.4	4.3	3.2	3.5	3.5
WIDTH (IN)	2.2	2.3	2.3	2.3	2.3	2.3	1.8	2.3	2.1	2.3	2.3	1.9	2.3	2.3
DEPTH (IN)	1.6	0.6	1.3	1.1	1.2	1.4	1.1	1.3	1.7	1.2	1.2	0.9	1.1	1
WEIGHT (OZ)	13.2	3.6	12	14.3	8.5	16	8.6	10.6	13.4	8.8	13	4.7	9	9.2

MFJ Switching Power Supplies

Power your HF transceiver, 6 meter/2 meter/440 MHz Mobile/Base and accessories with these 25 or 45 Amp MFJ MightyLite™ Switching Power Supplies!

No RF hash • Super lightweight • Super small • Volt/Amp Meters

4125

4225MV

4245MV

Small & Lightweight – *MightyLites™* are so light and small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky supplies.

Lightweight – The 25A *MightyLite™* only weighs 3.7 pounds – *5 times lighter* than an equivalent conventional power supply. And, the 45A model weighs just 5.5 pounds!

No RF Hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But, these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.

Worldwide Versatility – Switchable AC input voltage for 85-135 or 170-260VAC.

Mighty Features – Model **4225MV** and **4245MV** feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way Heavy Duty binding posts and cigarette lighter socket for mobile accessories. The **4245MV** has two sets of quick-connects on the rear for accessories. Dual three inch illuminated meters monitor load voltage and current. Internal fan.

4125 (left) – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5"d x 2.5"w x 2.5"h; 3.5 lbs..... **$109.99**

4225MV (center) – 25A maximum or 22A continuous. Dim: 5.75"w x 4.5"h x 6"d; 3.7 lbs **$149.99**

4245MV (right) – 45A maximum or 40A continuous. Dim: 7.5"w x 4.75"h x 9"d; 5.5 lbs **$199.99**

Miniature Switching Supply

Ideal for the Yaesu FT-817 and other QRP rigs. Input is 100-240 VAC and delivers 13.8 VDC @ 2.89 Amps output. Fully protected for over-voltage, over-current, and over-temperature. Includes a DC output cable with a 2.1mm plug that fits most MFJ, other accessories and QRP rigs. Includes adapter cable for the FT-817. Dim: 4-1/8 x 2-5/8 x 1-3/8 in.; 10 oz..... **MFJ 4103 $39.99**

All MFJ products come with MFJ's *No Matter What™* One-year Limited Warranty. (not including kits, books or software)

75Amp Switching Power Supply

Perfect for 500W solid-state amplifiers like the Ameritron ALS-500M and SGC SG-500, and other high current applications. It gives 75 Amps output continuously with less than 100mV peak-to-peak ripple under 75 Amp full load and regulation better than 1.5%. Has reverse polarity protection, brown out input protection, over-current and over-temperature protection. Thermal-controlled quiet fan. *Output Boost* steps up the output from 13.8 to 14.2 VDC to compensate for power cable and connector loss. Input 108-132 VAC, 50/60 Hz (18 Amps). Can be used to charge vehicle and emergency back-up batteries. Dim: 6.5"w x 3.5"h x 10"d; lightweight, just 7.8 lbs..... **AMR SPS-75 $359.99**

35/30 Amp Adjustable DC Power Supply

- **Conventional Design**
- **Massive 19.2 lb. transformer**
- **Adjustable 1-14 VDC**
- **Dual front panel meters**

Super Heavy Duty – Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30A continuous (35A max.) with regulation better than 1% and ripple voltage less than 30 mV. Over voltage, fold back and short circuit protected and variable fan cooled. Plenty of connections – three sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, two pairs of quick-connects for accessories and a cigarette lighter socket for those mobile accessories. Dim: 9-1/2 x 6 x 9-3/4 in.; 20.6 lbs..... **4035MV $149.99**

Gift Certificates
available from all
AES locations & online!

DATE _____ 20 ____

THIS CERTIFICATE ENTITLES _____

TO MERCHANDISE VALUED AT _____ DOLLARS $ _____

PRESENTED BY _____ AUTHORIZED BY _____

Certificate expires one year from date of purchase (subject to applicable state laws). Certificate will not be replaced if lost or stolen.

GIFT CERTIFICATE
AES
AMATEUR ELECTRONIC SUPPLY

5710 W. Good Hope Rd. Milwaukee, WI 53223 414-358-0333 1-800-558-0411

28940 Euclid Ave. Cleveland, OH 44092 440-585-7388 1-800-321-3594

621 Commonwealth Ave. Orlando, FL 32803 407-894-3238 1-800-327-1917

4640 South Polaris Ave. Las Vegas, NV 89103 702-647-3114 1-800-634-6227

ASTRON CORPORATION POWER SUPPLIES

The Low Cost alternative to "matching" Power Supplies

105–125V AC input, 13.8V DC output; Internally adjustable from 11–15V; Electronic regulation with fold-back current limiting and crowbar overvoltage protection; Heavy-duty heat sink; Three-wire cord; One-year warranty; Made in U.S.A.

Separate Volt and Amp meters on **RS-20M, 35M, 50M** and **70M**. Separate Volt and Amp meters, plus Voltage Adjustment (2–15V DC) on **VS-20ML, VS-35M** and **VS-50M**. The **RM-35M, RM-50M** and **RM-60M** are Rack Mount models, plus Separate Meters.

Model	Cont. Amps	ICS Amps	Size (in.) H W D	Shipping weight	Price
RS-7A	5	7	3.75 x 6.5 x 9	9	$59.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11	69.99
RS-12A	9	12	4.5 x 8 x 10.75	13	79.99
RS-20A	16	20	5 x 9 x 10.5	18	99.99
RS-35A	25	35	5 x 11 x 11	27	149.99
RS-35A/220V	Same as RS-35A but 220V input			C/O	149.99
RS-50A	37	50	6 x 13.75 x 12	46	219.99
RS-70A	57	70	6 x 13.75 x 12	48	279.99
With separate Volt & Amp meters					
RS-20M	16	20	5 x 9 x 10.5	18	119.99
RS-35M	25	35	5 x 11 x 11	27	169.99
RS-50M	37	50	6 x 13.75 x 11	46	239.99
RS-70M	57	70	6 x 13.75 x 12	48	299.99
Adjustable output; separate Volt & Amp meters					
VS-20ML	16	20	5 x 9 x 10.5	20	139.99
VS-35M	25	35	5 x 11 x 11	29	199.99
VS-50M	37	50	6 x 13.75 x 11	46	259.99
Rack mount; separate Volt & Amp meters					
RM-35M	25	35	5.25 x 19 x 12	38	259.99
RM-50M	37	50	5.25 x 19 x 12	50	299.99
RM-60M	50	55	7 x 19 x 12	60	389.99

POWER SUPPLIES with added Features

RS-4L – Has a built-in cigarette lighter receptacle in the front panel. 13VDC @ 4A peak, 3 Amps continuous. Dim: 3.5"h x 6.5"w x 4.25"d; 6 lbs **$49.99**

RS-12S – Has a built-in front mounted speaker. Rated 13VDC @ 12A peak, 9 Amps continuous. Dim: 4.5"h x 8"w x 9"d; 13 lbs..... **$89.99**

Small & Lightweight SWITCHING POWER SUPPLIES

SS-25 – 12V DC, rated 20A continuous, 25A ICS. Dim: 3"h x 7"w x 9.5"d; 4.2 lbs... **$119.99**

SS-25M – Same as above but with Volt and Amp meters..... **$139.99**

SS-30 – 12V DC, rated 25 Amps cont, 30 Amps ICS. Dim: 3.75"h x 7"w x 9.5"d; 4.5 lbs... **$129.99**

SS-30M Same with Volt/Amp meters.... **$149.99**

POWER INVERTERS

N2412-12 28V Aircraft – Converts 22–32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into a 28V battery for 12V..... **$59.99**

N2412-24 – Same as above, rated at 20A **$89.99**

SS-330W

SS-505

DAIWA

SWITCHING POWER SUPPLIES

SS-330W Regulated, Variable Switching Power Supply – Provides 5 to 15 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; wt. 4.3 lbs . **$169.99**

SS-505 Regulated, Variable Switching Power Supply – Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d, 8.4 lbs.....**$399.99**

DIAMOND ANTENNA

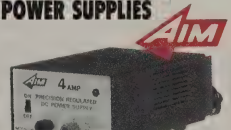
SWITCHING POWER SUPPLY

GZV-4000 Switching Mode DC Power Supply with Built-in Speaker – 120V AC input; Variable output 5–15V DC with convenient center detent at 13.5V DC; 40 Amps continuous rating @ 100% duty cycle; Over temperature, overload, short-circuit protection with current foldback at approximately 42 Amps; Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line. Dim: 8.25"d x 13"w x 4.5"h; 8 lbs..... **$179.99**

SMALL POWER SUPPLIES

AIM

38-305



38-384

38-384
Light-duty DC Supply – Input: 115 V AC; Output: 13.8V DC regulated @ 4 Amps; Front panel binding posts; LED indicator, fused protection. Dim: 7.75"d x 4.75"w x 3"h; 5.5 lbs **$54.99**

38-305
AC Adapter – Provides multiple low-voltage DC to operate various battery powered equipment requiring 3, 4.5, 6, 7.5, 9 or 12V DC with a max. current rating of 500ma. Multiple application plugs and 9V snaps fit most devices..... **$12.99**

SAMLEX AMERICA

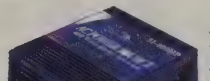
SWITCHING POWER SUPPLIES

SEC-1223 Low Cost, Base Station Power Supply for HF, UHF & VHF Transceivers – Switching mode design with 23 Amp rating (UL approved). Current limiting; Short circuit protection; Overvoltage protection; Anodized black chassis and powder coat wrinkle black steel cover; Cooling fan. Input: 110-120VAC (200-240VAC with a jumper removal but voids UL approval). Output 13.8VDC. 3-year warranty. Dim: 7.2"w x 8.7"d x 2.2"h; 3.3 lbs . **$99.99**

SPS-1204UL Switching Supply – Small and lightweight, provides highly regulated DC power. Cigar lighter output socket on front panel and wire terminals on rear. Over-voltage protection; Current limiting, Illuminated On/Off switch. UL and cUL approved; 110-125 VAC input; 13.2 VDC output @ 3.5 Amps. Dim: 2"h x 4"w x 6.3"d; 2 lbs.... **$29.99**

DC to AC INVERTERS

SI-175HP 175W 12VDC-110VAC Inverter Useful anywhere when 110VAC isn't available – boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter; 10-15VDC input; 115 Volts RMS output; 175W (continuous), 350W (surge); Dim: 1.6"h x 4.7"w x 5.4"d; 1.8 lbs **$29.99**



SI-400HP
400W 12VDC to 115 VAC Inverter – Similar to the **SI-175HP**, but higher (400W) rating. Cigar lighter plug input connector and battery clamp included; Input Voltage: 10-15 VDC input; 115 Volts RMS output; 400W (continuous), 800W.(surge). Dim: 2.4"h x 6.3"w x 6.3"d; 2.9 lbs **$49.99**

CELL PHONE CHARGER

FCP-1000 12V–1000mA Adapter/Charger – For operating or charging cell phones. Wall mount with cigar lighter receptacle; 110-120VAC input; 12VDC output; 1000mA, 19W output current. Dim: 2.25"h x 2.75"w x 4.25"d; 1 lb **$9.99**

For more Power Supplies please check pages 31, 36 & 56

POWER LINE SURGE SUPPRESSORS

SUPER-7 – For spike suppression and noise filtering. Provides 18,000 amp surge suppression, and RFI/ EMI filtering. Seven outlets, 7-foot cord, three diagnostic LED indicators **$19.99**

SUPER-7+TEL – Same, but with 6 outlets and fax/modem protection for modular jacks .. **$29.99**

ISOBAR-8 ULTRA
Premium Surge Suppressor – Rugged all metal housing won't break or burn. Isolated filter banks eliminate interference between connected equipment. Massive 1,200 joule, 96,000 amp spike suppression; Diagnostic alarm system indicates wiring faults, protection circuitry and power line status; 8 outlets, extra long 12 ft. cord.. **$79.99**

PolyPhaser CORPORATION

Power Line Extension Protector – In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. Two grounded outlets, power switch, and circuit breaker. Heavy duty, all aluminum grounded enclosure; 4.75 in. wide.

PLDO-120US15A
15 ft. cord; 120V/15A..... **$169.99**
PLDO-120US20A
6 ft. cord; 120V/20A..... **$199.99**

REMOTE CONTROL OUTLETS

RS-204U Remote Control Outlet System
These units plug into existing wall and allow remote controlled on/off switching for lamps, tools, appliances, etc. – drawing up to 20 Amps. Range is up to 80 ft. even through walls. Includes two outlets and remote control. Powered by two AAA batteries (not included)..... **$29.99**

MFJ AC LINE VOLTAGE MONITOR

850B – Plug in to the nearest wall outlet and monitor your AC line voltage. The color coded scale lets you read from 95 to 135 Volts AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75"w x 4"h x 1.1"d.. **$24.99**

POWER PLUGS/ADAPTERS

VANCO™

P-212 2-Outlet Cigarette Plug Adapter – Allows use of two 12V accessories from 1 outlet **$4.99**

P-212B Dual Cigarette Socket – Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse **$8.99**

P-12R 2-Contact Cigarette Plug – Solder type with strain relief and grip end..... **$2.29**

P-12V Cigarette Plug – Cigarette lighter plug with connecting leads **$2.29**

P-12X Cigarette Lighter Plug – Easy to use solderless plug. Wires crimp to terminals **$1.69**

NCG™ COMPANY

Power Pocket

Portable Power for emergencies, hamfests, hiking, etc. The 12V @ 2 Amp/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6 to 8 hours with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Includes a compact carrying case with belt loop and shoulder strap.
Dim: 3.5"w x 1"d x 6.5"h; weight 30 oz. **$66.99**

RECHARGEABLE BATTERIES

MAHA AA | MAHA AAA | MAHA 96V200 | MFJ AA

Maximum life • Memory-free operation
Rechargeable hundreds of times
Excellent for high current applications

MAHA RECHARGABLES

MH-R-AA4 – 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case..... **$14.99**

AAAT – 1.2V 650mAh rechargeable AAA NiMH batteries ..... each **$2.99**

MH-96V200 – 9.6V, 200mAh NiMH each **$12.99**

MFJ RECHARGABLES

92AA01 – 1300mAh NiMH AA's ..... each **$2.99**

92AA10 – Same as above..... 10-pack **$24.99**

REPLACEMENT HT BATTERY PACKS

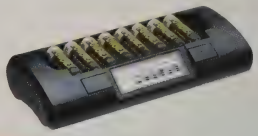
MAHA's replacement battery packs can increase your handhelds performance up to two times. Refer to the Price Guide under MAHA for a list of battery packs for Yaesu, Icom, Kenwood, and Standard radios.

MAHA CHARGERS

MH-C888 Universal Drop-In Rapid Charger and Conditioner – Incorporates special FLEX negative pulse feature to prevent crystallization when charging 4.8-12V NiMH/NiCad battery packs. Deep-conditioning feature does three consecutive charge and discharges before final charge. Built-in switching AC power supply and 12V cord **$59.99**

MH-C777 PLUS II Smart Universal Charger and Analyzer/Conditioner – Charges most NiMH, NiCad, Li-ion and Li-polymer battery packs. Built-in circuitry with LCD status automatically senses battery voltage. Includes external 110V switching power supply and 12V cord with cigarette lighter; Discharge-only feature retains discharged battery capacity on screen; Enhanced Li-ion algorithm reduces charging time..... **$74.99**

MH-K5000 One Hour Travel Charger – Worldwide use with an integrated 100- 240V, 50/60 Hz switching supply. Revives and conditions poorly performing batteries. Four charging phases: Startup charge; Rapid charge; Top-off charge and Maintenance charge. Batteries may be left in for extended periods without overcharging. Recharge (2) AA/AAA batteries in around one hour; (4) AA/AAA batteries in about two hours. Compact, lightweight (4 oz.). Includes (4) AA 2500 mAH NiMH batteries **$39.99**



MH-C801D Eight Cell 1-Hr Charger – Features EIGHT independent circuits that charge ONE to EIGHT AA or AAA batteries in any combination. Incorporates a large LCD screen displaying the charging status of each battery (Charge, Done, Conditioning, etc) replaces the usual LED indicators. Choose between a Soft Charge and Fast charge mode. The soft charge delivers the highest battery life and allows 100% compatibility with older, lower capacity batteries. The fast charge allows eight batteries to be fully charged to their maximum capacity in around one hour. A high-rate battery conditioner will Charge, Deep-discharge and Recharge batteries automatically for maximum rejuvenation. Includes a universal 110-240V, 50/60Hz AC switching power supply..... **$84.99**

633 Intelligent Charger
Charges 2 or 4 NiCad and NiMH AAA, AA, C, D (charging 2 at a time) and 1 or 2 9V cells. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. 120 VAC or 12 VDC **$29.99**

MFJ

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

West Mountain Radio

RIGrunnner

The most convenient and safest way to connect to a 12VDC source and distribute it to all equipment. Base or Mobile – no messy binding posts, frayed wire connections, black tape or short circuits – eliminate those wall warts.

- **Anderson PowerPole® crimp or solder connectors provide a safe secure, hot connect, polarized, color keyed, genderless connector system**
- **Several models, conservatively rated at up to 80 amps**
- **Each outlet is individually fused an automotive ATC/ATO fuse; blown fuse LED shows status**
- **Conforms to ARES/RACES, RSGB, ARRL recommendation for high current 12VDC connectors**

RR/8012/C Intelligent DC Power Panel, 12 Outlets, 80 Amps max. – DC voltage monitor and alert; internally detachable 6 ft. 8 ga. power supply cable and 12 pair of Anderson Powerpole® crimp-solder connectors **$139.99**

RR/4010S/C DC Power Panel, 10 Outlets, 40 Amps max. – One "always on" outlet and nine automatic or manually-controlled switched outlets. An On/Off system controls entire station with the power button on your rig. Status LED and audio voltage monitor. Includes 6 ft. supply cable and 12 pair of Powerpole® connectors **$129.99**

RR/4012/C Intelligent DC Power Panel, 12 Outlets, 40 Amps max – LED voltage monitor indicates normal voltage, LEDs and audio alert for over/undervoltage conditions. Includes 6 ft. supply cable with 12 pair of Anderson Powerpole® connectors. Dim: 11.8"w x 2.7"h x 1"d..... **$114.99**

RR/4008/C 8 Outlets, 40 Amps max – LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12 pair crimp solder connectors. Dim: 5.75"w x 2.7"h x 1"d **$99.99**

RR/4005/C 5 Outlets, 40 Amps max – DC power panel, for small/mobile installs or as expansion unit. Includes 6 ft. supply cable with 6 pair pair of Anderson Powerpoles. Dim: 5.75"w x 2.7"h x 1"d **$74.99**

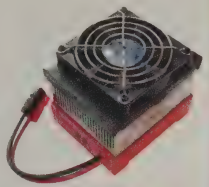
PG-40 PWRgate Backup Power System
A must for the Hamshack, Repeaters, Emergency Communications Centers, etc. Keeps equipment operational during power failures by instantly switching to a back-up 12V battery or power supply (not supplied). Rated up to 40 Amps continuous and a built-in mini-charger keeps the connected battery fully charged and ready for emergency operation. Output via Anderson 40A Powerpoles®, connectors not supplied. Dim: 1.64"h x 3.9"w x 5"d **$69.99**

PG-40S Super PWRgate 12V Backup Power System
Similar to PG-40 but includes a built-in four-stage battery charger with selectable current rates of 1, 4, 7 or 10 amps. The charger circuit is optimized for use with GELLED & AGM type batteries, but will keep flooded lead acid and marine type batteries near full charge as well. The Super PWRgate and a connected power supply may also be used to charge a battery that is powering a radio in operation **$119.99**

PWR/TOOL Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps every time..... **$49.99**
C30/PK/12 – 30A PowerPoles® ..... 12 pair **$11.99**
C45/PK/12 – 45A PowerPoles® ..... 12 pair **$13.99**

www.westmountainradio.com

Your Inquiries are INVITED!



CBA-2 Computerized Battery Analyzer
Test virtually any type or size of battery, any chemistry, any number of cells up to 48V. Capable of up to 40A or 150W, whichever is higher. Determines battery capacity in amp-hours, and graphically displays and charts voltage versus amp-hours which may be saved and printed. Quiet fan cooling and LED status indicators. A micro-controller provides plug-and-play with your computer. Includes CD-ROM and 6 ft. USB cable **$99.99**
CBA/TEMP Temp Probe for CBA-2 ..... **$10.99**

RT-1 RigTalk USB to serial converter with TTL output – Provides USB Serial control or programming of any radio with a TTL level interface, CAT or CI-V. Compatible with USB 2.0 or lower. Convenient pocket sized USB dongle design. Comes with a CD-ROM provides plug and play installation and includes a collection of third party software. Cables available for all ICOM and TEN-TEC CI-V controllable radios and newer YAESU CAT **$49.99**
CATMINI/CBL Yaesu Cable for RT-1 .... **$12.99**
CIV/CBL ICOM/TEN-TEC Cable/RT-1 ..... **$7.99**

WHAT/MTR – Plug it in to any Powerpole® equipped circuit and simultaneously read Voltage, Amperage, Amp/hours and Watts, fully automatic. Reads up to 60 Volts DC, 75 Amps and 94 Amp/hours. Dim: 3.8"w x 2.1"h x 0.9"d; 4 oz..... **$69.99**

MFJ High Current Multiple DC Power Outlets

Distribute power to transceivers and 6 or more accessories from your 12 VDC power supply

1118 Deluxe Multiple DC Power Outlet – The most versatile and highest current rating. Connect to a 12VDC source and distribute power to 2 transceivers and 6 or more accessories. Features 2 pairs of Super Heavy Duty 30A, 5-way binding posts, fused RF bypassed and rated 35A total draw. 6 pairs of 5-way binding posts for accessories rated for 15A total draw. Master fuse, On-Off switch with power LED. Built-in 0-25 VDC voltmeter, 6 ft. of 8-gauge, color-coded cable with ring tongue terminals. Binding posts are spaced for standard dual banana plugs. Dim: 12.5" x 2.75" x 2.5" **$79.99**

1117 – Similar to the 1118 but no meter, power LED or On-Off switch. Powers up to 4 radios at the same time. Two 35A single posts and one 35A dual post. Dim: 8" x 2" x 3" – mounts almost anywhere! **$59.99**

1116 – Similar to the 1118 but does not have 30 Amp posts. Has "Power On" LED and 0-25 VDC voltmeter. Rated at 15A total draw..... **$54.99**

1112 – Similar to the 1116 but no On-Off switch, power LED, voltmeter or fuse **$39.99**

www.mfjenterprises.com

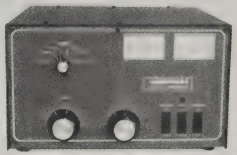
Power Supplies on pages 31, 36, 56 & 57

We accept I.M.P.A.C.® Government Credit Cards

811A HF Amplifiers

- Covers 160-15M, including WARC/MARS band
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input; ALC Control; Quiet Air Cooling
- Dual Meters (Plate Voltage, Grid and Plate Current); Vernier Reduction tuning
- Dim: 15.5"d x 13.75"w 8.25"h; Weight: 52 lbs.

NOTE: 10/12 meter Modification Kits for Ameritron Amps are available to licensed Hams direct from Ameritron



AL-811 – Uses (3) 811A transmitting tubes. Delivers 600W PEP output SSB/500W CW **$669.99**

AL-811H – Uses (4) 811A transmitting tubes. Delivers 800W PEP SSB/600W CW **$799.99**

3-500Z HF Amplifier

- Covers 160-15M, including WARC bands
- A Full KW PEP! (70% efficiency)
- HD silicone steel core Plate Transformer (26 lbs) and Computer Grade capacitors
- Tuned Input; Adjustable ALC; Air Cooled
- Dual Cross-needle meters (SWR, PEP power, Plate voltage, Grid and Plate current)
- Operates from 90-140VAC or 205-250VAC
- Dim: 15.5"d x 14.5"w x 18.5"h; Weight: 48 lbs.

AL-80B – Uses a **single** 3-500Z transmitting tube. Delivers **1000W PEP** output SSB/850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA..... **$1299.99**

Solid State HF Mobile Amplifier

ALS-500M – Increase your HF mobile power up to 500W PEP/400W CW. Continuous coverage 1.5-22 MHz. Uses (4) 2SC2879 RF power transistors. Instant bandswitching, no tuning, no warm-up and SWR protected. Runs nicely from 13.8 VDC mobile electrical system drawing 80 Amps peak current. Dim: 3.5"h x 9"w x 15"d; 7 lbs..... **$749.99**

ALS-500RC Remote Head – Mount ALS-500M amplifier anywhere with: Band select, On/Off and DC Current Meter. TX/overload LEDs..... **$49.99**

Solid State Base Amplifier

ALS-600 – No Warm Up, No Tune Up – Just turn on and operate. Uses (4) 2SC2879 RF power transistors with 600W PEP/400W CW output and continuous coverage 1.5-22 MHz. SWR and power protected. Includes AC power supply. Dim: amp and supply both 6"h x 9.5"w x 12"d. Wt: 30 lbs **$1129.99**

ALS-600S – Similar but with ALS-600SPS switching power supply; Weight: 22.5 lbs **$1249.99**

AMERITRON

3CX-800A7 HF Amplifiers

- Cover 160-15M, including WARC bands
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Dim: 8.5"h x 16.5"w x 13.75"d; Weight: 52 lbs.

AL-800 – Uses as a single *Eimac*® 3CX800A7 tube. Delivers 1250W PEP SSB output..... **$1699.99**

AL-800H – Uses (2) *Eimac*® 3CX800A7 tubes. Delivers 1500W PEP SSB output..... **$2499.99**

572B HF Amplifier

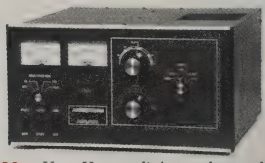
- Covers 160-15M, including WARC bands
- Heavy Duty silicone steel core Plate Transformer
- Instant 3 second warm up
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8.5"h x 15.5"w x 14.5"d; Weight: 40 lbs

AL-572 – This *Near Legal Limit*™ amplifier uses (4) rugged 572B tubes. Delivers **1300W PEP** SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier **$1399.99**

Super Legal Limit Amplifiers

- Cover 160-15M, including WARC bands
- Strong Stainless Steel Chassis
- Highly efficient *PeterDahl* tape wound Hypersil® Plate Transformer, up to 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Dim: 18"h x 17"w x 10"d; Weight: 77 lbs.

AL-1500 – Uses a single *Eimac*® 8877 Ceramic tube. Only 65W of drive power delivers full legal 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned..... **$2699.99**



AL-1200 – Uses Ham radio's toughest tube, the *Eimac*® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for 1/2 hour..... **$2349.99**

AL-82 – Uses (2) 3-500Z tubes. Delivers 1500W output which is more than other 3-500Z linear models because their lighter weight power supplies can't use these tubes to their full potential **$2299.99**

AMERITRON ACCESSORIES

ATP-100
Tuning Pulser – Safely tune up RF power amplifiers. Prevents overheating, tube damage, power supply stress and component failure..... **$59.99**

ATP-102
Deluxe Tuning Pulser – Similar but with variable pulser and delay **$69.99**

QSK-5
Pin diode T/R Switch – Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW..... **$339.99**

QSK-5PC – PC board version **$259.99**

CF-5 Cooling Fan – for QSK-5 **$39.99**

ARB-704
Interface Buffer – Prevents damage to radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Use ARB-704I2 for IC-706/IC-7000 only..... each **$59.99**

ICP-120/240
In-rush Current Protector – Stops power-on in-rush current surge and absorbs momentary voltage spikes. Use ICP-120 for 110-120V; ICP-240 for 220-240V..... each **$79.99**

ADL-2500
Dry Dummy load – Rated 2500W average power for 1 minute on, 10 minutes off, 300W continuous. Fan cooled, low VSWR up to 60 MHz..... **$189.99**

ADL-1500
Oil Filled Dummy Load – Handles 1500W for 5 minutes. Usable with low VSWR up to 400 MHz. Includes oil and container as pictured..... **$74.99**

AWM-30
SWR/Wattmeter – Perfect for making linear amplifier power measurements. A lighted Cross-needle meter to show true Peak or Average on 300W and 3000W ranges up to 30 MHz. Remote sensor. Uses 9V battery or 12VDC **$149.99**

RCS-4
Remote Coax Switch – Selects one of four outputs by supplying control voltages thru the coaxial cable Rated 1500W from 1.8 to 30 MHz.. **$139.99**

RCS-8V
Remote Coax Switch – Selects one of five outputs using one feedline and 6-wire control cable. Rated 1KW @ 150 MHz, usable to 250 MHz **$149.99**

RCS-8VN Same as RCS-8V but N-type connectors instead of SO-239 **$159.99**

RCS-10
Remote Coax Switch – Selects one of eight outputs by supplying control voltages thru the coaxial cable Rated 1500W from 1.8 to 30 MHz.. **$169.99**

Various "Plug & Play" Interface Cables for Ameritron Amps - See Price Guide

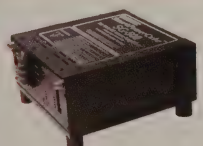
HF POWER AMPLIFIERS

PW-1 HF/50 MHz All Band 1 KW Linear Amplifier – Frequency range: 160-15M/6M. Power output operating on 180-264V AC is 1000 PEP SSB (1000W CW/RTTY/SSTV) @ 100% duty cycle, QSK with 100W drive. Power drops to 500W PEP/500W at 90-132V AC input. Automatic band change; Built-in all band automatic antenna tuner; Automatic AC voltage selector. Current, voltage, temperature, high SWR and output power protection; Wide range ALC adjusts to almost any rig; Control head is detachable from main unit (shown); Built-in power supply. Two input connectors and four output connectors.
Dim: 14"w x 10.5"h x 14.5"d; 56 lbs **$4699.99**

YAESU
Choice of the World's top DX'ers

VL-1000/VP-1000 QUADRA SYSTEM
HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply
Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6 meters) with 80W of drive. Frequency range: 160-15M, 6M amateur bands. Automatic bandswitching with Yaesu FT-1000, FT-1000MP, FT-1000MP MK-V, MK-V FIELD, FT-920, and the FT-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The huge dot-matrix LCD provides amplifier-status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks output jacks for versatile equipment and antenna configurations.
Dim: (Amp) 16.25"w x 5.9"w x 17.7"d, 46.3 lbs. (PS) 16"w x 5.9"h x 15"d, 32.2 lbs..... **$3899.99**

SGC



52-96 SG-500 SmartPower Cube™ Microprocessor Controlled Linear Amplifier
For 500W operation in your Base station or Mobile. Designed for maximum reliability and for unattended operation where access is limited. Microprocessor control automatically selects band; adjusts amplifier input sensitivity; monitors all parameters for faults (heat, high VSWR, under voltage, etc.); automatic shutdown at fault. Front panel LED status indicators. The most advanced self-protection on the market. Covers 1.6 to 24MHz, rated at 500W PEP SSB and 500W CW (with optional fan) with 80W drive. Less than 1 cubic foot of space. Requires 14VDC 40A average SSB, 90A peak/CW. Dim: 6.1"h x 11.4"w x 12.25"d; 21 lbs. **$1249.99**

MIRAGE

VHF/UHF POWER AMPLIFIERS

Models covering 6 Meters thru 70 cm for Base, Mobile, Repeater or ATV operation

Rugged construction • 12V DC operation • FM mode (SSB/CW on some models) • Built-in 20dB gain GaAsFET Receive preamplifier • Overdrive and High temperature protection • Remote control capability • Various input and output levels

Model	MHz	Max Input	Max Output	Amps	Pre-amp	Price
A-1015G	50-52	1-15W	150W	23	yes	$359.99
B-34	144-148	8W	35W	4	no	89.99
B-34G	144-148	8W	35W	4	yes	109.99
B-1018G	144-148	0.2-15W	160W	25	yes	369.99
B-2518G	144-148	20-35W	160W	25	yes	299.99
B-2530G	144-148	10-35W	300W	48	yes	699.99
B-5018G	144-148	20-60W	160W	22	yes	299.99
B-5030G	144-148	0.5-50W	300W	48	yes	669.99
B-310G	144-148	0.25-8W	100W	15	yes	209.99
B-320G	144-148	2.5-50W	200W	25	yes	459.99
BD-35	144/440	1-7W	45/35W	7	no	159.99
C-22G	222-225	2W	20W	5	yes	159.99
C-211G	222-225	2W	110W	20	yes	329.99
C-1012G	222-225	10W	120W	25	yes	329.99
C-1022G	222-225	10W	220W	40	yes	699.99
C-2512G	222-225	30W	120W	25	yes	309.99
D-15N	425-450	2W	15W	3	no	189.99
D-26N	430-450	2W	60W	12	no	279.99
D-1010N	430-450	10W	100W	15	no	379.99
D-3010N	430-450	30W	100W	20	no	349.99
D-1010ATVN	430ATV	10W	100W	20	no	399.99

N = Type-N connectors

More MIRAGE amps...
Continuous duty Repeater Amplifiers for 6, 2, 1-1/4 meters, 70 cm, 450 MHz & ATV.
See the Price Guide under MIRAGE

REMOTE HEAD

RC-1 – Remote control Mirage amplifier functions: Power and Preamp On-Off, FM/SSB mode. Dim: 1.75" x 3.75" x 2.5". Includes 18 ft. control cable..... **$49.99**
RC-2 – for B-XX18G series amplifiers.. **$49.99**

DOCKING BOOSTER

B-24G – Slide in an HT with 0.5 to 8W output for an instant 50W Mobile or Base. station. Replaces HT battery with selectable voltages that adapt to most HTs. Built-in 18dB gain GaAsFET preamp with On-Off switch and LED indicator. Transmit LED. Place on dashboard or desk, or mount with the supplied tilting bracket. Uses 13.8 VDC @ 7A. Dim: 4.25"h x 3.35"w x 3.25"d . **$109.99**

See Price Guide under MIRAGE for available Handheld adapters for the B-24G

2 Meters All Mode

Power Curve – typical for the B-5018-G									
IN	0.5	5	8	10	15	20	25	35	50
OUT	---	52	99	119	125	130	135	145	160

Power Curve – typical for the B-2518-G									
IN	0.5	5	8	10	15	20	25	---	---
OUT	5	56	91	111	135	153	160	---	---

Power Curve – typical for the B-1018G									
IN	0.5	5	8	10	---	---	---	---	---
OUT	30	150	155	160	---	---	---	---	---

Power Curve – typical for the B-2530G									
IN	1	3	5	10	25	---	---	---	---
OUT	30	95	140	250	300	---	---	---	---

Power Curve – typical for the B-5030G									
IN	1	3	5	10	25	50	---	---	---
OUT	---	---	55	150	220	300	---	---	---

2 Meters All Mode

Power Curve – typical for the B-310G									
IN	.25	0.5	1	2	4	6	7	8	---
OUT	25	50	75	95	100	100	100+	100+	---

2M/440 Dual Band

Power Curves – typical BD-35 output power								
Watts Out (2M)	30	40	45	45+	45+	45+	45+	45+
Watts Out (440 MHz)	16	26	32	35+	35+	35+	35+	35+
Watts In	1	2	3	4	5	6	7	8

MIRAGE

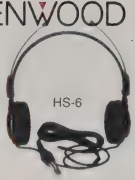
LOW NOISE GaAsFET RECEIVE PREAMPS

High gain ultra low noise GaAsFET preamps for boosting weak signals on VHF and UHF bands and compensating for feedline loss. Selectable gain prevents receiver intermod. Provides 15 to 22 dB Gain with a Noise Figure of less than 0.8 dB. Installs in-line with automatic T/R switching up to 100 Watts. In-shack or mast mount models. Voltage: 12-15V DC.

In-Shack Models – $139.99 each
KP-1/6M – 50-54 MHz **KP-1/2M** – 144-148 MHz
KP-1/440 – 430-450 MHz

Mast Mount Models – $184.99 each
KP-2/6M – 50-54 MHz **KP-2/2M** – 144-148 MHz
KP-2/440 – 430-450 MHz

KENWOOD



HS-5 Deluxe Headphones – Specifically designed for communications. Provides a natural sound and pads eliminate pressure permitting long hours of fatigue free listening. To increase the volume level when using in a noisy room or for privacy, you can replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Impedance: 8; Power: 200mW @ 1000 Hz max. input; Response: 150-4000 Hz; 13 oz..... **$79.99**

HS-6 Lightweight Headphones – Response: 100 to 10,000 Hz; Impedance: 12.5; 6 ft. straight cord with 1/4 in. phone plug; weighs 4 oz..... **$59.99**

YAESU

YH-77STA Stereo Headphones – Impedance: 35 ohms; 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter; weighs 4.4 oz..... **$59.99**

MFJ

288 Deluxe Headset Microphone – Lightweight, comfortable for **Yaesu**, **Icom** and **Kenwood** units. Superb transmit audio, and earphone tonal quality. Foam covered microphone element is attached to headset with a flexible rubber boom allowing proper positioning. PTT switch on the 6 ft. cord, hold or attach to clothing..... (specify radio) **$24.99**

292Y Featherweight™ Earphone/Microphone Has an earbud earphone and a tiny thumb-sized microphone/PTT switch that's built right into the 4 ft. cord. For Icom Q7A, Yaesu FT-10R, FT-40R, FT-50R and VX series..... **$17.99**

392B Headphones – Perfect for Amateur and Shortwave listening. Superbly padded headband and ear cushions and only 8 oz. for comfort. High-performance drivers with full 100 – 24,000 Hz response provide enhanced sound and speech fidelity. Earphones have individual volume controls. Includes a 9 ft. cord with gold-plated plug and 1/4" adapter..... **$24.99**

297 Desk Microphone

A sensitive condenser mic element coupled with a low-noise amplifier. Speech tailored; select *SSB Mode* for smooth, articulate DX or Full-range Mode for clear FM or AM. Flexible microphone boom, momentary and locking PTT switch. On-the-air LED indicator, frequency up/down switch. Requires two AA batteries. Dim: 4"w x 1.25"h x 6"d (base)..... **$69.99**

5397 8-Pin Adapters for 297 – Available for Yaesu, Icom and Kenwood units... (specify radio) **$17.99**

295 Mini Speaker/Microphone – Plugs into popular Yaesu, Icom and Kenwood HTs. A non-directional electret element provides great audio quality, LED shows transmit ..... (specify radio) **$16.99**

MIDLAND

High Performance Mobile speaker

- Clear crisp sound
- Large 15 watt capacity
- 4-ohm
- Swivel base
- 5.5"w x 5.5"h
- Cord with 3.5mm plug

21-406 $22.99

HEIL SOUND — Headsets • Boom Microphones • Hand Microphones • Microphone Elements

See the Price Guide under HEIL for Prices, other Models and Accessories

GM-Series Provides full-range, smooth and articulate audio for AM, FM and "HI-FI" SSB modes. The 60Hz to 16kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio, and adds a well-balanced robust low end. **Dual element** - the GM comes with your choice of a second element (HC-4 or HC-5). A "wide-narrow" switch selects the second element. Die-cast body, high lustre black lacquer and topped with a crushproof golden grill, and a "soft touch" PTT button. Requires a CC-1 cord.

HM-10 Whether DX or Rag Chews, these are the great sounding Heil microphones you have been hearing on the Ham bands for years. The **HM-10** is available with your choice of an HC-4 "DX Dream Machine" or HC-5 "Full Range Articulation" element. The **HM-10 Dual** has both the HC-5 and HC-4 elements (switch selectable), a choice for varying conditions. Both require a CC-1 cord.

Handi-Mics Five clean and clear sounding models each for different applications, mating to different rigs and inputs. A PTT switch is incorporated on four of the models. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes dash holder, boom clip and a windscreen.

PR-20 Professional Dynamic Cardoid Microphone – For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz to 18 kHz response.

PR-40 Large Diameter Studio Microphone New element technology with a response from 28 Hz to 18 kHz with a mid-range rise for gorgeous vocal articulation. Stand not included.

PR-780-PTT Professional Quality Dynamic Cardiod Studio Microphone – For high end transceivers: ICOM IC-7800, the PRO-series, the KENWOOD TS-2000, TS-850/870 and YAESU FTDX-9000 using the correct CC-1 XLR mating cables. Uses a dynamic broadcast element for a beautiful wide frequency response and high articulation. Includes CB-1 PTT base.

HC-5 Full Range Articulation Element Make your rig sound better and more intelligible to the listener by providing full articulation and more clarity than a factory microphone can provide. A 350 to 4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak at 2100 Hz produces very clear, easy-to-understand audio that will get you lots of on-the-air compliments.

HC-4 The "DX Dream Machine" Element Produces super audio clarity with more PUNCH for difficult conditions like contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where SSB signals need maximum penetration and intelligibility. Designed with 500 to 3800 Hz response with a 10dB peak @ 2000 Hz & sharp 12dB per octave roll off @ 500 Hz which gives it a sharp sound that really penetrates under difficult conditions, but is not real pleasing to the listener for everyday rag chewing.

GAP

Noise Eliminating Speaker

HEAR IT – Incorporates DSP technology that is fully adaptive to any change in background or man-made noise levels, and effectively attenuates it up to –20dB. This dramatic drop in noise level results in clearer and less fatiguing audio. The *'Hear it'* has the capability to reduce noise equal to, or better than, DSP systems built into several popular radios. If your radio already has DSP, the *'Hear it'* will provide additional improvement in copy. If it doesn't have DSP, there will be a huge improvement in readability. Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plugging headphones or another speaker into the audio bypass jack mutes the speaker, but retains DSP noise reduction. A built-in amplifier provides 2.5W of audio power. Requires 12–28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plug. Dim: 4.5"w x 2.75"h x 2.25"d **$159.99**

In-Line DSP Module

N LINE MODULE – Provides the same audio features as the *'Hear it'* speaker above, but without the speaker. Built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input/ouput jacks & headphone jack. Requires 12-24VDC @ 500mA. Includes a 3.5mm to 3.5mm audio cable and fused power leads.
Dim: 6.75"w x 3.35"h x 1.4"d; 1 lb..... **$199.99**

SGC

ADSP² Speaker

70-14 – An affordable solution that will deliver top of the DSP Noise Reduction for ANY transceiver. The ADSP² speaker has two convenient push button switches. One button toggles between 0, 13dB or 26dB of noise cancellation and the second selects 1 of 3 bandpass filters (100, 500 & 1500 Hz). It provides -45dB out of band reduction with one-click operation. There is a headphone jack for private listening. The black metal enclosure features an adjustable stand and wired cable for audio input mono mini plug) and for 12 VDC @ 110-500mA input. Dim: 3"h x 5"w x 2.5"d; 11 oz..... **$129.99**

WE WANT TRADE-IN's!

Tell us what you have to trade...

1-800-558-0411

Sorry, no Handhelds

TIMEWAVE TECHNOLOGY INC.

DSP-599ZX DSP Noise Filter – Digital Signal Processing provides superior reduction of QRM and QRN. Examines and measures signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in clarity to fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz to 600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER; Test instrument mode provides audio sine wave generator, audio millivoltmeter and two-tone audio generator **$436.99**

ANC-4 Antenna Noise Canceller and Diversity Combiner – Effective with any transceiver (250W max.) or receiver from 500 kHz– 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver AGC circuits. Connects between your antenna and radio with a second antenna acting as a noise pickup. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. It also can operate as an active antenna using a the noise antenna and noise gain control. And, it can be used as a diversity combiner to pick up enhance weak signals or null interfering signals. 11–16V DC @ 300 ma. Dim: 1.7"h x 6"w x 4.3"d; 2 lbs..... **$209.99**

ESP

ESP-1 Microphone Audio Processor – Now you can improve your communications clarity with the addition of Compression (AGC), a Noise Gate, plus Bass and Treble adjustment. A backlit LCD displays all functions for monitoring during operation. The input/output level controls make it easy to configure the ESP-1 for any transceiver with an 8-pin microphone connector. EZ to operate, there are no complicated switching or unnecessary functions... **$225.99**

COMPRESSION/AGC: Adjustable from 0 to 14 dB, keeps modulation constant with varying speech level. Increases average speech level, adds punch and intelligibility.

NOISE GATE: Eliminates background noise present in the ham shack (blowers, A/C units, conversation, etc.) during pauses in speech.

BASS & TREBLE: Adjust to your personal preference by listening to the ESP-1 output with headphones using the rear mounted jack.

MFJ MFJ ENTERPRISES, INC.

1263 Microphone Control Center – Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Eliminates swapping connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6"w x 1.5"h x 5"d..... **$109.99**

616 Speech Intelligibility Enhancer™ – Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand SSB, FM, AM, CW & QSOs by adjusting response levels to match hearing response for best clarity, then equalizing perceived loudness to each ear. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable transceiver inputs; bypass switch. Use with rig or PA. Dim: 10"w x 2.5"h x 6"d; requires 12 VDC **$179.99**

281 Communications Speaker Features a rugged 3 inch mylar cone speaker mounted in a baffle. Improves speech intelligibility in the 600-4000Hz range while reducing undesirable noise, static and hum. Mounting bracket. Dim: 3.75"h x 3"w x 2.25"d.... **$12.99**

382 Deluxe Amplified Speaker Excellent for QRP'ers, base station HTs or rigs requiring more volume. A quality 3 inch speaker does the job. All metal cabinet, rubber feet and vinyl clad cover. Uses 9 Volt battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 3.5"h x 1.75"w x 4.5"d ... **$39.99**

784B Tunable DSP Audio Filter – Improves reception by simultaneously eliminating heterodynes and reducing noise and interference in nearly any mode. Provides five tunable DSP filters, plus ten programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction reduces fatigue. Highpass/lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Uses 12 VDC or 110V with the MFJ-1312D.
Dim: 9.5"w x 2.5"h x 6"d..... **$249.99**

LARGE STOCKS – we are in a position to take care of your needs out of our Regular Inventory.

557 Code Oscillator with Key – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D ($15.99). Dim: 8.5"d x 2.25"h x 3.75"w.... **$39.99**

554 Code Practice Oscillator – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Metal enclosure. Dim: 4.25" x 1.5"h x 5"d **$89.99**

550 Hand Key..... **$14.99**

414 Professional Classroom Tutor – Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D ($15.99). Dim: 8.5"w x 2.25"h x 6"d..... **$199.99**

452 Super CW Keyboard – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5–100WPM; Weight: 5–95%; Sidetone: 300–3000 Hz sidetone; Serial Numbers (0–9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC **$139.99**

462B MultiReader™ – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. An 8K memory for storage and convenient printer port. Requires 12VDC. Dim: 6.25"w x 2.5"h x 6.25"d **$189.99**

461 Pocket-Size Morse Code Reader™ No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. Uses 9V battery (not included). Dim: 2.25"h x 3.25"w x 1"d, 5.5 oz..... **$89.99**

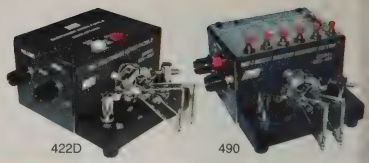
5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack..... **$7.99**

464 CW Reader With Built-In Keyer – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25"w x 2.5"h x 6.25"d..... **$179.99**

407D Deluxe Electronic Keyer – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7"w x 2"h x 6"d.... **$69.99**

401D Econo Keyer – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4"w x 1.75"h x 3.75"d... **$59.99**

434B Contest Voice Keyer™ – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like *'CQ Contest this is K9KHW, "You're 59"..."Grid is EN63"* and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3–500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head ($34.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, ($15.99). Dim: 6.5"w x 2.5"h x 6.5"d **$179.99**

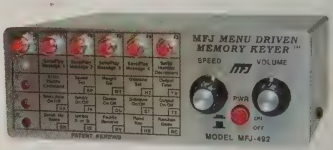


422D Keyer-Paddle Combo – Consists of a unique MFJ/Curtis keyer™ in a compact package installed on a Bencher iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories, speaker, sidetone and semi-auto/tune modes. Keys grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D ($15.99). Dim: 4"w x 2.25"h x 4.25"d..... **$179.99**

422DX Keyer Only – Install on your Bencher or MFJ 564 Iambic paddle **$89.99**

490 Menu Driven Memory Keyer and Bencher Paddle Combination – A compact feature-rich keyer mounted on a Bencher iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic or bug or handkey modes. Select iambic A/B, Morse trainer, contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99). Dim: 5"w x 3"h x 5.5"d **$199.99**

490X Menu/Memory Keyer Only – Same as MFJ-490 but without Bencher paddle..... **$109.99**

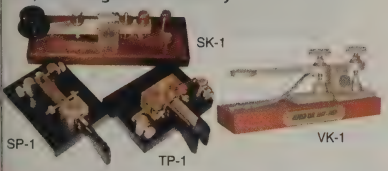


492 Menu Driven Memory Keyer – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99). Dim: 6.5" x 2.5" x 6.25" ... **$109.99**

495 Millennium CW Keyer – A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D ($15.99). Dim: 6.25"w x 2.5"l x 6.25"d..... **$169.99**

KENT Keys

Produced by R.A. Kent Engineers for OUTbacker. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.



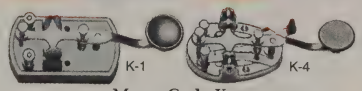
VK-1 The "Vail Lever Correspondent" Key A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized – a collectable! **$179.99**
SK-1 – Straight Morse Key..... **$129.99**
SP-1 – Single Paddle Morse Key..... **$139.99**
TP-1 – Dual Paddle Iambic Key..... **$149.99**

XT-4 CW Memory Keyer – Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery..... **$69.99**
KC-4 – Cable set for XT-4 ..... **$9.99**
VK-64 Combination CW/Voice Keyer – Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply **$229.99**
VKC-8 Cable – Shielded audio cable semi-kit wired and tested except for microphone and transmitter connectors (8-pin)..... **$24.99**

The Better RF Company

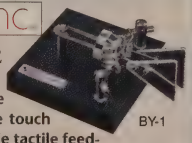
-MATE Accessory for ICOM PRO Series Provides external selection of pre-recorded voice nd keyed messages for the 756PROII & III and eyed CW messages for the 746PRO. Eliminates hifting the display from operating mode to memo-y select mode to transmit prerecorded messages. our buttons transmit associated messages. Provides ulsed sine-wave oscillator for safe tuner and ampli-ier tuning. Has alternate audio input for second nic. Plugs into transceiver microphone jack and owers from the available voltage..... **$74.99**

AMECO
Code practice oscillator and Morse code monitor
Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.
OCM-2W Wired **$29.99** • **OCM-2K** Kit **$19.99**



Morse Code Keys
K-1 – Low-cost general purpose key w/phenolic base, adjustable tension, contact spacing .. **$10.95**
K-4R – Deluxe high quality key. Polished brass base, shorting bar **$17.95**

BENCHER, INC



IAMBIC & SINGLE LEVER PADDLES
Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contact points and heavy non-skid base.
Iambic
BY-1 – Black base/Chrome components **$109.99**
BY-2 – Chrome base/components **$129.99**
BY-4 – Black base/Gold components .. **$169.99**
Single Lever
ST-1 – Black base/Chrome components **$109.99**
ST-2 – Chrome base & components ... **$129.99**

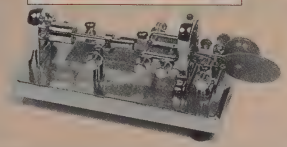
RJ SERIES KEYS
Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.
RJ-1 – Black base/Chrome components.. **$105.99**
RJ-2 – Chrome Base & components .. **$129.99**

IDIOM Press
LOGIKEY

K-5 Fully Iambic Keyer – An improvement on the world-famous LOGIKEY K-3. It has an unmatched feature list, with the best operator interface available. New features include greater protection against voltage spikes, lightning, etc. All stainless hardware, internal volume control, updated enclosure design. Only 3 AAA cells will run the keyer for months, or it accepts 9-12 volts DC. Works perfectly with single-lever, non-iambic paddles. The K5 otherwise has too many features to list, but you'll find them at **http://www.idiompress.com/K5.html**. Dim: 4.25"w x 2.25"h x 4.75"d **$149.99**
HK-3 Hook-up kit for the K3 – Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V **$10.99**

We accept I.M.P.A.C.® Government Credit Cards

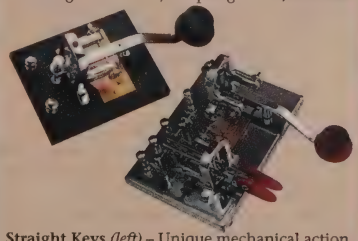
VIBROPLEX



The Original Bug from 1904, is still made using tools similar to those used by inventor Horace Martin. Designed for 20-50+ WPM.
110 Standard – Painted base/chrome top **$179.99**
105 Deluxe – Polished chrome base and top parts with fine jewel movements..... **$209.99**
100 Presentation – Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements..... **$269.99**
090 Gold – Plated base/chrome top.. **$309.99**

Vibrokeyers: Single lever paddle *(left)* initiates automatic dots and dashes of an electronic keyer. Iambic model *(right)* allows automatic dot/dash insertion.
Vibrokeyer
120 Standard – Blk base, chrome parts **$159.99**
115 Deluxe – Chrome base and top parts with jeweled movements..... **$199.99**
113 Gold – 24K gold-plated base and chrome top parts with jeweled movements.... **$279.99**
Iambic
135 Standard **$159.99**
130 Deluxe..... **$199.99**
125 Presentation – 24K gold-plated top plate, chrome base with jeweled movements **$269.99**
123 Gold **$279.99**

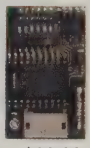
145 Triangle Brass Racer Iambic – Solid brass paddle & polished hardwood base **$149.99**
150 Square Brass Racer – Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs..... **$149.99**



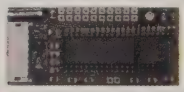
Straight Keys *(left)* – Unique mechanical action, unlike any straight key ever manufactured.
155 Standard **$159.99**
160 Deluxe..... **$199.99**
153 Gold **$279.99**
Deluxe Double Keys *(right)* – Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.
165 DLX straight key/Iambic..... **$349.99**
170 DLX straight key/Vibrokeyer.. **$349.99**

COMMUNICATIONS SPECIALISTS, INC.

TONE ENCODERS & DECODERS

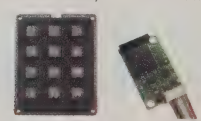


SS-64 Programmable CTCSS Encoder – Super small for easy install in most HTs. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 0.66" x 1.08" x 0.21". 6–28 VDC..... **$28.99**



TS-64DS Field programmable CTCSS Encoder /Decoder – DIP switches for 64 EIA tones 33-254.1 Hz; 1.25" x 2" x 0.3"; 6–28 VDC..... **$57.99**

TE-32 Multi-tone Encoder – Provides 32 tones direct access from the dial rotary switch to all EIA CTCSS tones from 67-203.5 Hz, allowing access to various repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7"; 6-30 VDC **$49.99**



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20VDC. Dim: 1.85" x 1.12" x 0.35" **$69.99**

Wiring diagrams and lists of Fax-on Demand documents can be obtained from www.com-spec.com.

NORCOMM™ TONE SIGNALLING PRODUCTS

TONE SIGNALLING

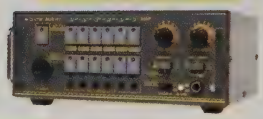
NC-101 Encoder – Micro-miniature CTCSS encoder, field tunable to any CTCSS tone frequency between 67 Hz and 254 Hz. Uses 5 to 15VDC. Dim: 0.60"w x 0.80"l x 0.15"h **$21.99**

NC-104 Programmable Encoder – Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones plus 69.37, 97.4 and 205.5 Hz. Uses 7 to 24VDC. Dim: 0.625"w x 0.80"l x 0.170"d... **$26.99**

NC-106 Programmable CTCSS Encoder and Decoder – A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the CTCSS tones + 97.4 Hz. 6-24VDC. Dim: 0.85"w x 1.35"l x 0.28"h... **$62.99**

NC-401 Touch-Tone® Decoder – A micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features E²PROM memory for storage of both primary and secondary codes, input/output functions, deadbeat disable and user outputs, plus default reset. Programs with a conventional DTMF encoder. Uses 6-24VDC. Dim: 0.80" x 1.37" x 0.23"... **$62.99**

NW COMMUNICATIONS SOLUTIONS

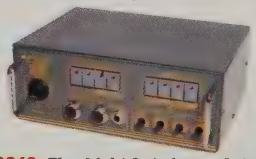


NCS-3230 Multi-RX Receive Console – The ultimate in RX audio control from up to 6 receivers! Connect radios, then choose which to monitor, where the audio will appear in the audio field (two modes), and record any or all audio utilizing manual or VOX activation. External recorder required. LEDs indicate which radio(s) are selected. Built-in stereo amp; Front panel volume and balance controls; "Mute All" button; Use headphones/set or speakers or both; LEDs identify active radios; 12 VDC needed. Dim: 8.5"w x 3.3"h x 6.6"d **$349.99**

NCS-1514 Wall Power Supply – Designed for use with the 3230 above **$24.99**

NCS-P2PH35-A Cable Kit – Six cables, 6 ft. long, for connecting radios to the 3230. RCA connector on one end and 3.5mm plug on the other **$26.99**

NCS-MRX2MS-A Cable Kit – For interfacing the 3230 to the 3240. Feeds selected audio from the 3230 to speakers or headphones/set connected to the 3240. Selective muting..... **$49.99**



NCS-3240 The Multi-Switcher – Switches all equipment (microphone, headset, keyer, footswitch, etc) to any of four different radios using LED-lighted push buttons. Switch between headset, desk/hand microphone, TNC, phone patch, sound card, etc. Matches impedance, audio level and pinout of nearly any mic to virtually any radio. Switches foot/hand-switch and CW keyer to selected radio. Switches radios receive to external speaker or headphones. Requires 12VDC. Dim: 8.5"w x 3.3"h x 6.2"d..... **$299.99**

NCS-1512 Wall Power Supply For the 3240, 12 VDC output @ 300mA.... **$12.99**

NCS-LOZNC Unterminated Cable Requires mic connector. Other end is an 8-pin DIN male connector to interface with 3240..... **$17.99**

See NCS in the Price Guide for Radio Cables for Icom, Kenwood & Yaesu radios

INTERNET LINKING KIT

YAESU

HRI-100 Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRES™II user/server agreement **$149.99**

More WIRES™II wide-coverage internet repeater enhancement system information can be found at www.vxstd.com/en/wiresinfo-en/

50W 2M REPEATER

YAESU

VXR-7000VA 50W 2M FM Desktop Repeater A long list of built in features that set the standard for a mid-power continuous duty repeater application. Attractive housing and user-friendly controls. In the most demanding environments, the VXR-7000VA will provide years of reliable service. 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, automatic DC supply back-up. Dim: 4.5"h x 12.8"w x 15.4"d; 22 lbs **$1269.99**

** Dealer programmed feature*

D-STAR REPEATERS & CONTROLLER

ICOM

ID-RP4000V

D-STAR repeaters can be tied together to make up the repeater system you want using either Internet or microwave links.

The D-STAR voice & low-speed data signal offers a significant improvement in spectrum efficiency, requiring only a 6 kHz channel instead of the 20, 25, or even 30 kHz of analog wide-band FM. D-STAR repeaters can be interleaved between existing channels or multiple repeaters deployed in the spectrum of only one analog FM repeater.

Single Modules:

ID-RP2C - Repeater Controller (control up to 4 modules) **$1459.99**

ID-RP2D - 1.2 GHz Data module; RX & TX 1240-1300 MHZ; Output 9-12W (high)/0.5-1.2W (low); Communication speed: 128 kbps..... **$1112.99**

ID-RP2V - 1.2 GHz Voice Module; RX & TX 1240-1300 MHZ; Output 6-12W (high)/0.5-1.2W (low); Communication speed: 4.8 kbps .. **$1559.99**

ID-RP2000V - 2M Voice Module; RX & TX 144-148 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) **$1399.99**

ID-RP4000V - 440 MHz Voice Module; 440-450 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) **$1399.99**

ID-RP2L - 10 GHz Backbone Module; Microwave link repeater provides linking with another repeater site; RX & TX 10-10.175 GHz; Output 2W; TX speed: 10 Mbps..... **$5209.99**

Packages:

ID-RP2C/2D - ID-RP2C & ID-RP2D **$2297.99**

ID-RP2C/2V - ID-RP2C & ID-RP2V **$2969.99**

ID-RP2D/V
ID-RP2C, ID-RP2D & ID-RP2V **$4119.99**

ID-RP2D/V+LIN
ID-RP2C, ID-RP2D, ID-RP2V & ID-RP2L **$9904.99**

West Mountain Radio

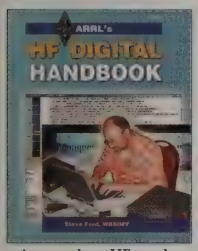
RIGblaster

The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, comes with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Three models to choose from for your operating needs. Use with any modern computer and radio with a matching mic connector.

RB/PR/C RIGblaster Pro – The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with computer and a radio. 8-pin and RJ45 radios as supplied **$249.99**

RB/PL/C RIGblaster PLUS – Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ45 radios as supplied..... **$129.99**

RB/NO/CU RIGblaster Nomic – Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your mic whenever you wish to use sound card software. 8-pin and RJ-45 radios as supplied **$69.99**



ARRL
HF DIGITAL HANDBOOK
3rd EDITION

Discover the wonders of RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hellschreiber, MFSK16 & PSK-31. All it takes is your computer, and SSB transceiver and an HF modem, multi-mode processor or PC soundcard. Learn how to assemble your own HF digital station, send/receive internet-mail via HF radio and more! **ARR 9159 $19.95**

Order Now Toll Free from any AES Location

We accept I.M.P.A.C.® Government Credit Cards

MFJ Computer SOUND CARD to RIG Interfaces

Connect the Sound Card in your Computer to your Rig and operate the Digital Modes: CW, RTTY, SSTV, PSK-31, packet, APRS, AMTOR, High Speed Meteor Scatter, others

1275/1275M Sound Card Interface – Connect between a transceiver and computer and operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a CD with a collection popular digital mode software. Use model **1275** for 8-pin round microphone plug or model **1275M** for 8-pin modular plug (RJ-45) .... each **$109.99**

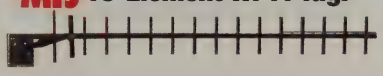
MFJ-1279

1279 Super Sound Card Interface – Has all of the features of the **MFJ-1275** above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Plug and play, includes CD with a selection of digital mode software, RS-232 and audio cables, and AC power supply. Use model **1279** for 8-pin round microphone plug or model **1279M** for 8-pin modular (RJ-45) microphone plug ..... each **$139.99**

1273B Sound Card Interface – A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or switch). Includes RS-232, audio and mic cables and software. No external power needed. Use model **1273B** for 8-pin round microphone plug, or model **1273BM** for 8-pin modular (RJ-45) microphone plug. ea. **$59.99**

1272B TNC/Microphone Switch – Switch between your TNC and 8-pin microphone by pushing a button. For microphones with 8-pin modular (RJ-45) plug, use model **1272M** ..... each **$49.99**

MFJ 16-Element Wi-Fi Yagi

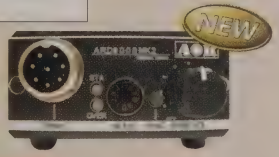


1800 – Covers 2.4 GHz with 15dBi gain to greatly extend the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes the possibility of interfering signals. Works with any 802.11b/g or 2.4 GHz device. Unique mount has a built-in standard N-type female connector and screw mount for standard tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mounting. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 inches, Weight: only 2.9 oz..... **$29.99**

5606SR – 6 ft. cable with N type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector..... **$24.99**

AOR® Digital Voice Interfaces

ARD-9800 Digital Voice and Image Interface Use your conventional SSB transceiver for Digital Voice, Data (3600 bps) and Images while maintaining analog capabilities. No modifications, simply plug it in to the microphone jack, operates with transceiver in SSB mode. An automatic voice signal detector recognizes received signal as analog or digital, automatically switching to the appropriate mode. Uses Open Digital Protocol which is permitted on US Ham bands. Built-in speaker and video output connector which allows external TV monitor viewing. Includes PTT hand microphone, cables and manual. Requires 10-16VDC. Dim: 3.94"w x 1.26"h x 6.14"d **$549.99**



ARD-9000 MK 2 Digital SSB Interface – Like the ARD-9800 it works with any existing SSB transceiver without modifications to operate digitally where background noise and static are virtually non-existent and SSB audio is near FM quality. It's Digital Voice only and does not include Data and Images like the ARD-9800; it's also less expensive. However, the ARD-9000 MK 2 and ARD-9800 are compatible with each other and both automatically detect digital signals and decode them while allowing analog signals to pass through. Easily shifts between digital and analog operation. Comes with a speaker-microphone, DC power cable, magnetic mount base and 8-pin microphone plug. It's ready to make the simple connection to your transceiver's microphone input and speaker output. Dim: 2.8"w x 1.3"h x 3.9"d..... **$359.99**

MFJ

VHF DATA RADIOS

Don't tie up your expensive rig on a single packet channel, check out these low-cost MFJ Data Radios.

8621 PacketOnly™ 2M Transceiver – Compatible with all TNCs with hardware DCDs and most TNCs with software DCDs. Features: 1200/9600 baud; 5W output; Low current drain only 15mA on receive and less than 1 amp on transmit. Dim: 5"w x 5"d x 1.5"h; Crystals installed for 145.01 MHz. **$159.99**

8621X2 PacketOnly™ 2M Transceiver – Ready for APRS use. Crystalled and aligned for 144.390 MHz; 5W output **$169.99**

Available Accessories:
4110 Portable AC power supply, **5100** Data radio cable (MFJ/TAPR), **5100YH** Data radio cable (KPC9612), **5100YV** Data radio cable (KAM/KPC3), **5106** Open end (6-pin mini) (Kenwood/Yaesu)

UM Unified Microsystems

W9XT Contest Card for IBM™ & PC Compatible

A non-volatile 5 x 4.5 in. card that plugs into a single 8-bit ISA PC slot and provides Voice Recording, Playback and CW keying from your computer. Stores a total 60 seconds of voice audio divided into four 15 second messages. Samples at 8 kHz for high quality and natural sound. Does not use any disk space. For CW, the card frees up the PC port, and a relay allows operation with positive or negative keying. Works with all rigs and is compatible with most popular logging programs..... **$139.99**

CCC-8 Contest Card Cable Semi-kit – Wired and tested except for connectors to mic and transmitter. Includes 6 ft. shielded cable, CW keying line and record switch (8-pin) .. **$44.99**

Kantronics

MULTI-MODE DATA CONTROLLERS

KPC-3 Plus/128 – 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM **$198.99**

9612 Plus/128 – 1200 bps port and second port of 4800 – 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability **$388.99**

KAM 98 – Single port multimode TNC for HF and VHF use; Packet, GPS/APRS, Host, KISS, WEFAX, CW, RTTY, AMTOR, PACTOR, G-TOR®, Free signal detection for HF email, A/D inputs/TTL outputs; HC11 for more processing power to accommodate future upgrades; Wider range of speeds; use 1200 bps packet on 10 meters ..... Closeout **$349.99**

KAM XL Multi-Mode DSP Controller – Kantronics third generation multimode TNC, a state-of-the-art design giving operations on HF, VHF, and UHF, while supporting DSP modems and popular new modes of operation; Packet 300/1200 bps; G-TOR; PACTOR I; AMTOR ARQ (FEC, SELFEC, CCIR 476 and 625); PSK31; RTTY; NAVTEX/AMTEX; ASCII; WEFAX; CW; Dual-port mailbox; Remote SYSOP access; GPS NMEA-0183 compatible; Kantronics Host Mode and KISS **$409.99**

Our service is second to none.
Give us a call or email us at info@aesham.com with your inquiries.

TIMEWAVE TECHNOLOGY, INC.

PK-232/PSK Multimode Data Controller – The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25"d x 2.5"h; 3 lbs **$531.99**

PK-96/100K 9600/1200 packet TNC – 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external .TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; Requires 12V DC. 128K RAM. Dim: 6.25"w x 7.5"d x 1.375"h; 1.25 lbs.. **$219.99**

AC-5 120V Power Supply – Provides 13.8VDC @ 1.7A for the DSP-599zx, PK-232/DSP, DSP-2232, DSP-1232. DSP-232, PK-900, PK-232/PSK, PK-96/100K **$22.99**

HAL COMMUNICATIONS CORP.

DXP-38

External DSP HF Radio Modem

Operates:
PACTOR / RTTY / ASCII
AMTOR / CLOVER II **$395.99**
Terminal Software Included

More info on DXP-38 at: www.halcom.com

RTTY-1 Tuning Indicator
Easy to use, very accurate. Works with any FSK radio modem. Crossed LED bars show correct tuning for FSK modes including Baudot Teletype (RTTY), ASCII Teletype, AMTOR, SITOR, P-Mode, HF Packet. Filters: 2125 Hz (Mark), 2295 Hz (Space); Requires +9V-18V DC @ 160 ma. Dim: 5.5"w x 3.75"h x 1.25"d; 0.5 lb..... **$99.99**

CSS Creative Services Software

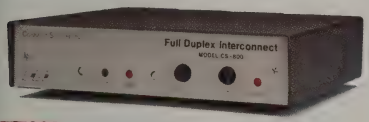
PKTERM 3.0 and PACTERM 3.0 for Windows – The latest CSS 32-bit terminal software for Timewave/AEA and Kantronics TNCs and computer soundcard interfaces. True multi-tasking in Windows using the standard Windows interface for ease of use. Operates the digital modes (PSK-3, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF/HF Packet) and works with single or dual port TNCs or with computer's soundcard and interface. Requires Timewave/AEA host mode or Kantronics TNC host mode for TNC interface. For soundcard-only mode use any of the popular soundcard interfaces like HamHub, RIGblaster or MFJ 1275/79. Easy logging with built-in logbook feature. CD ROM.

PACTERM FOR WI – Kantronics TNCs **$99.99**
PKTERM FOR WIN – Timewave/AEA PK-12, 96 and 232 TNCs..... **$99.99**

CONNECT SYSTEMS INC.

INTERCONNECTS

Fully automatic interface between an FM base radio and phone line to initiate and receive phone calls on a mobile or HT. Each contains powerful, microprocessor-controlled features such as 90 memory speed dialer, redial, built-in programming keyboard and digital readout, remote base mode, regenerated tone or pulse dialout, CW ID and toll restrict.



CS-800 Full Duplex Interconnect – Operates full or semi-duplex and also has a built-in repeater controller. Simply connects to transceiver mic and speaker jacks. FCC and DOC approved. 12-15 VDC. Dim: 7.875"w x 7.5"d x 2"h; 2.5 lbs **$369.99**

CS-900 Control Station Simplex Interconnect For use with any simplex transceiver. Also use thru remotely located repeaters (from base) for added range. Digital voice delay standard. Connects to mic and speaker jacks of simplex transceiver. FCC and DOC approved. (Transceiver switching speed does not affect performance) 12-15VDC. Dim: 7.9"w x 7.5"d x 2"h; 2.5 lbs..... **$369.99**

890 DX Beacon Monitor – Use as an aid to check band conditions worldwide in just three minutes. It requires no connection to a transceiver. The beacon monitor is a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the beacon activation sequence. LED indicators positioned across a world map show which of the 18 beacons is active at any given time. Storing the beacon frequencies in transceiver memory allows quick switching as one listens for beacon transmissions. When a beacon is heard on any of the frequencies, that band is open to the location indicated by the corresponding LED. Requires 12VDC or 110VAC with the optional MFJ-1312D. Dim: 6.75"w x 5.25"h x 3"d **$109.99**

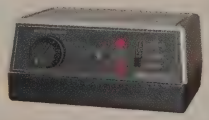
8708 Micro ATV Transmitter – Transmits a high quality Amateur Television audio and video signal on 433.97 MHz (cable channel 58, 59 or 60). Plug in an antenna and a video source (video camera, camcorder or VCR). With a TV set or downconverter you'll have a complete low power ATV station. Puts out a 50 to 100mW signal with a range of up to 1.8 miles with a 3-element beam. Use a UHF amplifier you can enjoy ATV communications over an extended range with other ATV hams. Uses a 9V battery **$159.99**

Q-VIEW QSL Card Holders

Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards .... **ART QSLCARDHOLDE** (3 pack) **$18.99**

ICC

NITELOGGER II
Automatic Tape Recorder Activator



Accepts audio output from a radio or scanner and provides voice activated relay operation for a tape recorder. When audio is present, an adjustable relay circuit automatically activates the recorder for the duration of the signal, then releases. Simple connection with supplied cables to radio's external speaker jack, tape recorder remote and microphone inputs. AC adapter included. Dim: 4.37"w x 3.25"h x 2"d.. **$69.99**

The **Sticky Pad** holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

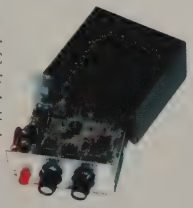
STI 13810 – Dim: 7.25 in. x 4.13 in..... **$5.99**

STI 13820 – Dim: 8.75 in. x 6.875 in **$9.99**

VECTRONICS

Electronic Kits

Each features a quality epoxy glass PC board with solder mask and screen-printed component key, manual and components.



See VECTRONICS in the Price Guide

Same Day Shipment on Most Items

RT3-4653 Locking GearKeeper™ Two-Way Radio Tether for Handheld – Prevents loss or damage from the device being dropped. Easy connect and disconnect. Has a retractable 32 in. tether with 24-ounce return force. Full 360° rotating belt clip **$26.99**

RT2-4012 Mic Keeper™ – Tired of fumbling with your microphone? Why not grab it, use it, let it go? The retractable 20 in. tether with 12-ounce return force and snap clip, attaches to D-ring or belt loop. The ultimate way to keep track of your microphone **$19.99**

Communications Outfitters

EXP-1 Expedition Pack – Designed for the Yaesu FT-817. Allows backpack style or table top operation with complete access to all controls, front and rear. A zippered pouch on both sides securely holds most any antenna in the collapsed position for travel. Radio compartment is divided so the top section will hold the FT-817, and the lower compartment can be used for an amplifier, tuner, accessories, or another radio. Made of high quality, durable nylon with plastic panels for rigidity and water-resistant for added rig protection. Dim: 12"w x 4"h x 15"d **$99.99**

18 HamGear™ Tactical Chest Harness (left) Perfect for rugged use, emergency radio operators and on-the-go hams! Use it for portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap, this interwoven fabric is water resistant and will cushion blows and scrapes. Adjustable shoulder straps. Harness is firmly held in place by stretchable inter-woven elastic belt with snap hook and adjustable sliders supported by nylon straps. An additional 5 x 7 in. cargo pocket holds another radio, accessories, maps, etc..... **$29.99**

15 HamGear™ Belt Radio Holder (right) A durable twill burlap pocket with elastic cord and velcro closure that easily stretches over any HT. Your belt slides easily through the attached 2 x 3 inch loop **$14.99**

Life is a JOURNEY. Enjoy the ride!

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT AND COAX CABLE COMBINATION. NO HOLES TO DRILL!

MODEL	ANT CONN / COAX CONN
CP-5M	SO-239 / PL-259
CP-5NMO	NMO / PL-259
CP-5 3/8-24	3/8-24 / PL-259

Heavy-duty adjustable lip mount bracket with 16' 6" deluxe cable assy includes 18" mini RG-188A/U type coax for weather seal entry.

Max antenna 70" Attaches to trunk side/ van door/SUV door/ truck doors etc..

COMET CA-2X4SR DUAL-BAND, SUPER WIDE-RANGE 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 3.8dBi 5/8 wave • 446MHz 6.3dBi 5/8 wave x 3 • Length: 40" • Conn: PL-259 • Max Pwr: 150W
2:1 VSWR 140-160MHz and 435-465MHz • One Antenna for operating on Amateur and Emergency Service Frequencies

COMET M-24 (M/B/S) 2M/440MHZ DUAL-BAND MAG MOUNT Gain: 1.7/4.1dBi • Length: 19.5" • Max Pwr: 80W
Coax Length: 12' • Conn choices: M-24M PL-259, M-24B BNC, M-24S SMA

COMET SBB-1 / SBB-1NMO FLEXIBLE DUAL-BAND 2M/440MHZ W/RUBBERIZED ELEMENT
Gain & Wave: 146MHz 1.7dBi 1/4 wave, 446MHz 2.15dBi 1/2 wave • Length 16" • Max Pwr: 60W
Conn: SBB-1 PL-259, SBB-1NMO: NMO type

Maldol AX-50 DUAL-BAND 2M/440MHz
Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

Maldol AX-75 DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

Maldol AX-95 DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

COMET B-10 / B-10NMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12"
• Conn: B-10 PL-259 ,B-10NMO - NMO style • Max Pwr: 50W

COMET SBB-2 / SBB-2NMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18"
• Conn: PL-259 ,SBB-2NMO - NMO style • Max Pwr: 60W

Maldol EX-107RB / EX-107RBNMO DUAL-BAND 2M/440MHz
Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length:29"
• Conn: PL-259 ,EX-107BNMO - NMO style • Max Pwr: 100W

COMET SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain and wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39"
• Conn: SBB-5 PL-259 ,SBB-5NMO - NMO style • Max Pwr: 120W

COMET SBB-7 / SBB-7NMO DUAL-BAND 2M/440MHz W/FOLD-OVER
Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58"
• Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Length: 8.75" • Conn: SMA

Maldol MH-209 *(BNC Conn)* **MALDOL MH-209SMA** *(SMA Conn)* **2M/70CM DUAL-BAND HT ANTENNAS**
3" length, soft rubber cover. Good performance in a small package!

COMET and Maldol Mobile

For a complete catalog, call or visit your local dealer.
Or contact NCG Company.1275 N. Grove Street, Anaheim, CA 92806
714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

Maldol MH-511 TRI-BAND 6M/2M/70CM HT ANTENNA • Length: 4" • Conn: Male SMA

Maldol MH-510 TRI-BAND 6M/2M/70CM HT ANTENNA • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

COMET HT-224 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

Maldol MH-610 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

COMET SBB-224 / SBB-224NMO TRI-BAND 2M/220/440MHz WITH FOLD-OVER • Gain & Wave: 146MHz 2.15dBi 1/4 wave • 220MHz 3.5dBi 5/8 wave • 446MHz 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

Maldol EX-510B / EX-510BNMO TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 1/4 wave • 146MHz 2.15dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • VSWR • Length: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

COMET SB-15 TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 0dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

COMET UHV-4 QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 10M & 6M 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10M 120W SSB 6M/2M/70cm 100W FM • Conn: PL-259 • 10M and 6M bands have individual tuning stubs

COMET UHV-6 HF/6M/2M/440MHZ MOBILE ANTENNA *80/20/17/40/15/10/6/2M/70cm Mobile antenna with fold-over hinge• Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • ***L-14 optional 17M coil *L-18 optional 20M coil *L-3.5 optional 80/75M coil** • Features: • 6M/2M/ 70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in• Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

UHV-6 in fold-over position.
Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc SB-15 / UHV-4 / UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

Maldol HMC-6S *40/20/15/10/6/2/440MHZ MOBILE ANTENNA WITH FOLD-OVER Gain & Wave: HF 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF-6M 1.6:1 orless 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM*HMC-7C optional 40M coil

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT AND COAX CABLE COMBINATION. NO HOLES TO DRILL!

MODEL	ANT CONN / COAX CONN
CP-5M	SO-239 / PL-259
CP-5NMO	NMO / PL-259
CP-5 3/8-24	3/8-24 / PL-259

Heavy-duty adjustable lip mount bracket with 16' 6" deluxe cable assy includes 18" mini RG-188A/U type coax for weather seal entry.

Max antenna 70" Attaches to trunk side/ van door/SUV door/ truck doors etc..

COMET and Maldol Mobile

For a complete catalog, call or visit your local dealer.
Or contact NCG Company.1275 N. Grove Street, Anaheim, CA 92806
714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

CP SERIES
UNIVERSAL LIP MOUNTS
Four adjustment planes, four large set screws hold them securely in place on virtually any lip 1/4" thick or less. Use on trunk lids, van doors, truck doors, hoods etc.

Deluxe low loss cable assembly included for easy entry thru the weather seal without causing water leaks, wind noise and/or coax cable damage.

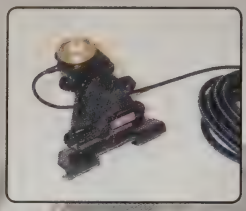
Max antenna size: *70"/16 oz*
Max Power: *HF 130W*
VHF 75W
UHF 45W

Combine the coax style and length you need with a bracket from below.
(assemblies also available with N-connectors)

COMET
3D5M / 3D4M
Standard low loss cable assy.
Gold plated SO-239 / PL-259 connectors.
3D5M length 16' 6"
3D4M length 13'

COMET
CK-3M5 / CK-3M
Deluxe low loss cable assy.
Includes 18" of mini RG-188A/U type coax for easy entry from a lip mount without causing water leaks, wind noise or coax damage.
CK-3M5 length: 16'6"
CK-3M length: 9'9"

Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.



COMET
CP-SNMO
Universal lip mount with coax, NMO and PL-259 connectors.

COMET
CP-5 3/8-24
Universal lip mount with coax, 3/8 x 24 threaded socket and PL-259 connectors.

COMET
RS-730
Heavy-duty, 4 adjustment planes, up to 70" antenna.

COMET
RS-720 / RS-720NMO
Med-duty, 3 adj planes, 60" ant.*
RS-720: Accepts SO-239 conn
RS-720NMO: Accepts NMO conn

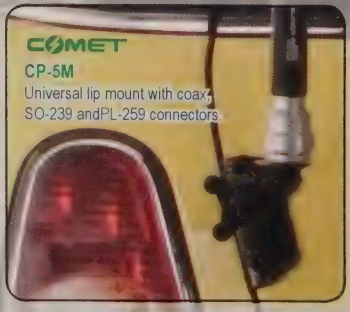
COMET
RS-520
Light-duty, 3 adjustment planes, up to 45" antenna.

Maldol
PRM-T
Heavy-duty, 3 adjustment planes, up to 80" antenna.

Maldol
MK-30H
12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.

Maldol
EM-B80
Light-duty, 2 adjustment planes, up to 40" antenna.

COMET
GRB-5M
Trunk lip mount, low-profile,black anodized stainless steel.Offset washers provide up to 17 deg. vertical adjustment of antenna.16'9" of deluxe cable included, 18" of mini RG-188A/U style coax for easy entry thru the weatherseal. Gold-plated SO-239/PL-259 connectors.



COMET
CP-5M
Universal lip mount with coax, SO-239 andPL-259 connectors.

The rear doors on newer trucks are the perfect place to mount antennas • No holes to drill • Above roof line • Easy access • When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.

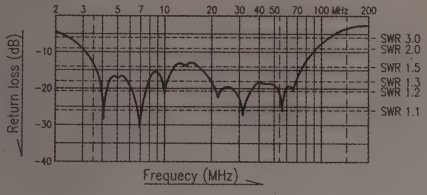
COMET and Maldol Mobile

For a complete catalog, call or visit your local dealer.
Or contact NCG Company.1275 N. Grove Street, Anaheim, CA 92806
714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

Life is a JOURNEY, Enjoy the ride!

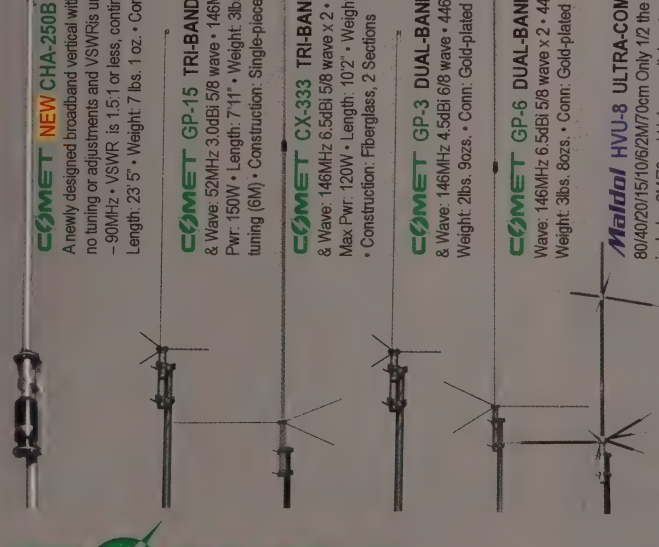
COMET and Maldol

Base Antennas



CHA-250B VSWR graph

"One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!" – Dan Dankert N6PEQ



COMET NEW CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA
A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWRis under 1.5:1 from 3.5-57MHz! • TX: 3.5MHz – 57MHz • RX: 2.0 – 90MHz • VSWR is 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM• Impedance: 50 Ohm • Length: 23' 5" • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd. 1" – 2" dia. • Max wind speed: 67MPH

COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7'11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239• 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass

COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3• 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10'2" • Weight: 3lbs. 1oz.• Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5'11"• Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10'2"• Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

Maldol HVU-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA
80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side. • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M-70cm: 150W FM• Conn: SO-239 • Height: Only 8'6" • Weight: 5lbs. 7ozs.

COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA
BEST SELLER! • Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W• Length: 16' 9"• Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

WI-FI/802.11B/LAN/HSMM
ACCESS POINT ANTENNAS

COMET GP-24 2.4GHZ ACCESS POINT ANTENNA The standard high gain 2.4GHz access point antenna for maximum range/signal strength. • 2400-2500MHz • Gain: 15.4dBi • Length: 5'10" • Weight: 2lbs. 9ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome

COMET GP-24-3 *SPECIAL ORDER*. The same physical high gain 2.4GHz antenna as the GP-24,but with a 3-degree electrical downtilt to concentrate the signal to the horizon and below

COMET GP-24-S MEDIUM GAIN ACCESS POINT ANTENNA *SPECIAL ORDER*.
For applications where maximumdistance is not as important as a solid signal around and directly below the antenna. • Gain: 9.9dBi • Length:39" • Weight: 1lb. 14ozs. • Conn: Gold-plated N-female • Construction: Heavy-duty white fiberglass radome

COMET and Maldol Antennas

For a complete catalog, call or visit your local dealer.
Or contact NCG Company.1275 N. Grove Street, Anaheim, CA 92806
714-630-4541 • 800-962-2611 • FAX 714-630-7024 • www.natcommgroup.com

DIAMOND ANTENNA

The Standard By Which All Others Are Judged

ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Multiband Vertical Antennas

MODEL	FREQ (MHz)	IMPEDANCE	WATTS (PEP)	CONN.	BOOM LNTH.	WEIGHT
◆ BB7V	2-30 (W/TUNER)	50Ω	250	UHF	60"/22'	4.5 lbs.

Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
CP22E [1]	144	6.5	200	UHF	9.0	70
DPGH62 [1]	50	6.0	200	UHF	21.0	78
F22A	144	6.7	200	UHF	10.5	112
F23A	144	7.8	200	UHF	15.0	90
F718A	440	11.5	250	N	15.0	90
F1230A II	1.2 GHz	13.8	100	N	12.0	112
G200	2.4 GHz	11 dBi	—	N	4.8	135

Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510NA [2]	144/440	8.3/11.7	200	N	17.2	90
X510MA	144/440	8.3/11.7	200	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+
X700HNA	144/440	9.3/13.0	200	N	24.0	90
U200A	440/1240	8.3/11.7	100	N	5.9	135

Tri-Band Base/Repeater Antennas

Mast requirement: 1.5"-2.5"

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
V2000A [3,5]	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A [4]	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

Yagi Antennas

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A144S5	144	9	100	UHF	37.5"	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element

Ruggedized Base/Repeater Antenna
X500HNA

COAX CONNECTION AT BASE END | HEAVY DUTY BASE/ RADIAL ASSEMBLY | STRONG JOINT COUPLINGS

X500HNA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

Features

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

Specifications:

Frequency:	*2m:* 144-148 MHz	*70cm:* 440-450 MHz
Gain:	*2m:* 8.3 dB	*70cm:* 11.7 dB
Power:	200 watts	
Wind Rating:	90 MPH (no ice)	
Height:	17.8 feet	

X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Frequency:	*2m:* 144-148 MHz	
	70cm: 440-450 MHz	
Gain:	*2m:* 4.5 dB	
	70cm: 7.2 dB	
Power:	200 watts	
Wind Rating:	135 MPH (no ice)	
Height:	5.6 feet	

X30A

The X30A works well in areas where height and/or antenna restrictions are an issue.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

Specifications:

Frequency:	*2m:* 144-148 MHz	
	70cm: 440-450 MHz	
Gain:	*2m:* 3.0 dB	
	70cm: 5.5 dB	
Power:	150 watts	
Wind Rating:	135 MPH (no ice)	
Height:	4.5 feet	

BAND: 144=144-148 MHz., 222=222-225 MHz.
420=420-430 MHz., 430=430-440 MHz.
440=440-450 MHz., 1240=1240-1300 MHz.

NOTES:
1 Heavy duty aluminum construction.
2 X510NJ: 144-147/430-440 MHz.
3 1/4λ. rated in dBi.
4 2m: 146-148; 100 watts
5 52-54 MHz. only

DIAMOND ANTENNA
Diamond Antenna Division of RF Parts Co. Tel: (760) 744-0900 • FAX: (760) 744-3116 • www.diamondantenna.net

DIAMOND ANTENNA

You've seen the rest...now own the best!

DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

Maximum Performance Without Compromise

FOLD-OVER

One-Touch Fold-Over Feature.**

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	HT. IN.	ELEMENT PHASING *1/4λ rated in dBi.*
M285S*10	2m	3.4	200	UHF	52.4	5/8λ
M285SNMO*10	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
SG2000HD*	2m	5.2	250	UHF	62.6	1/2λ+3/8λ
HF6FX*6	6m	2 dBi	250	UHF	40	1/4λ
HF50CX*6	6m	3.5 dBi	200	UHF	75	3/8λ
M68S*6	6m	2.15 dBi	200	UHF	52.4	1/4λ
M68SNMO*6	6m	2.15 dBi	200	NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2λ+1/4λ
NR124NMO	23cm	8.4	100	NMO	25	4-5/8λ
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ, 5/8λ,
MR77	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR72BNMO*6	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA7	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO8	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4λ+1/2λ, 3-5/8λ
SG7000A*6	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ, 2-5/8λ
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ, 2-5/8λ
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ, 3-5/8λ
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8λ, 3-5/8λ
SGM510	2m/70cm	2.15/5.5	100	UHF	37	1/2λ, 2-5/8λ
CR320A*6	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4λ, 1/2λ,
CR320BNMO*6	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8λ
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ, 5-5/8λ
CR627B*6,9	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4λ, 1/2λ+1/4λ
CR627BNMO*6,9	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8λ
SGM911*6,9	6m/2m/70cm	2.15/3/5.8	60	UHF	41	1/4λ, 1/2λ, 2-5/8λ
CR8900A*6, 11	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ, 1/4λ 1/2λ, 2-5/8λ

6 Grounding required
7 NR770HB same specs but in black finish.
8 NR770HBNMO same specs but in black finish.
9 52-54MHz only
10 Tunable from 140-174MHz
11 FM only

* Not recommended for Magnet Mount

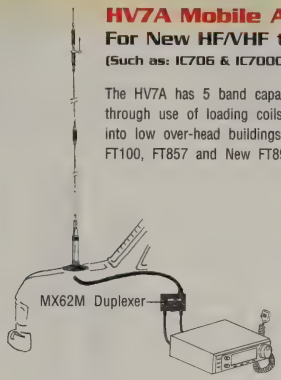
** Fold-Over not available on CR-270A, M285, M285SNMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO, and NR73BNMO

HV7A Mobile Antenna System

For New HF/VHF transceivers

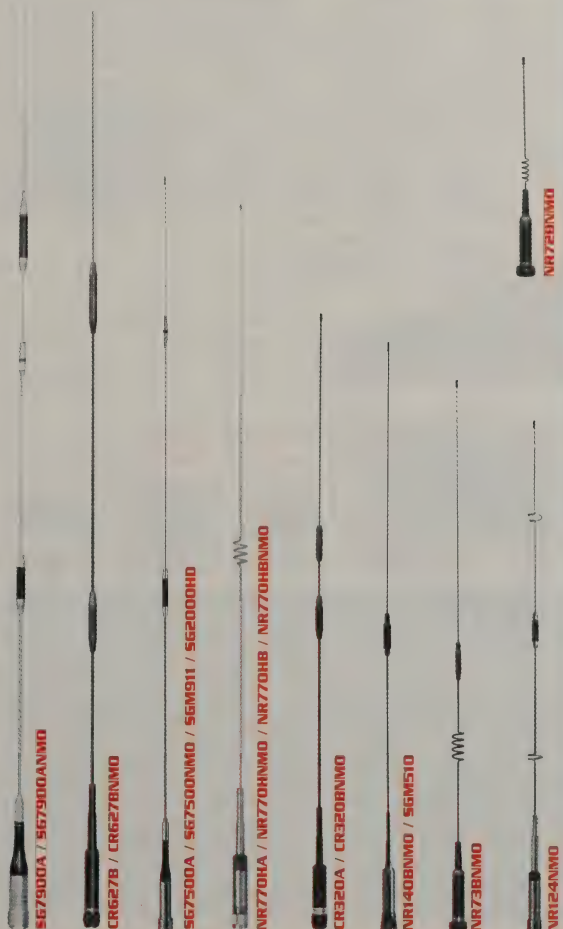
(Such as: IC706 & IC7000 series, FT100, FT857 & NEW FT8900R)

The HV7A has 5 band capability: 70cm, 2m, 6m, and 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 & IC7000 series, FT100, FT857 and New FT8900R radios.



Bands Supplied:	10m/6m/2m/70cm
Power, P.E.P.:	HF 120w/VHF 200w
Mount Connection:	UHF
Length:	54"
SWR:	1.5:1 nominal
Opt. Loading Coils:	HVC7 40m HVC14 20m HVC18 17m HVC21 15m

Recommended Antenna Mounts: K400C, K400S, K600S or K600M



VHF/UHF and HF/VHF Mobile Antennas

DIAMOND ANTENNA

DIAMOND ANTENNA

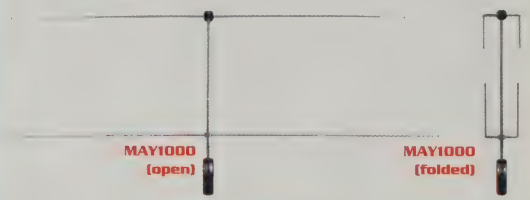
See Price Guide for additional models and pricing. ◆*Indicates New Item.*

Diamond Antenna Division of RF Parts Co. Tel: (760) 744-0900 • FAX: (760) 744-3116 • www.diamondantenna.net

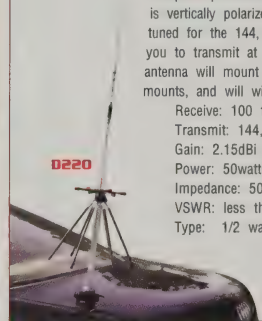
HT/SCANNER ANTENNAS - COAX SWITCHES
LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

Handheld Direction Finding Beam Antenna

The MAY1000 handheld beam is a great antenna for radio direction finding on frequencies ranging from 120MHz up to 500MHz. Every aspect of the MAY1000 is adjustable to optimize the antenna for a specific frequency using a measuring tape and a laminated frequency chart that are both provided. Whether you are tracking birds, dogs, ELTs or a stuck transmitter, this antenna will be a great addition to your kit. The 39" cable attached to the antenna is terminated with a BNC connector.



Mobile Discone Antenna



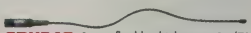
The D220 mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.

Receive: 100 to 1600MHz
Transmit: 144, 440, 902, 1200MHz
Gain: 2.15dBi 144, 902, 1200MHz, 5.5dBi 440MHz
Power: 50watts PEP
Impedance: 50 ohms
VSWR: less than 1.5:1
Type: 1/2 wave 144MHz, 2 x 5/8 wave 440MHz
Length: 35.5" / .90m
Weight: .85 pounds / 385g
Connector: UHF / PL259
Mounts: K400 and K600 series

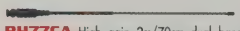
HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

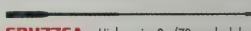
RH3 2m/70cm dual band "Black Bullet" HT antenna. 1.75" BNC. 120-900 receive.



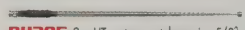
SRHF40 Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15" SMA, +6dBR.



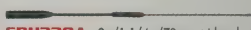
RH77CA High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR, BNC.



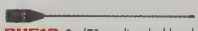
SRH77CA High gain 2m/70cm dual band flexible HT antenna. 15" SMA, 10 watts, +6dBR.



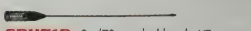
RH205 2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9". +9dBR.



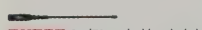
SRH320A 2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4" SMA. 10 watts, +3dBR.



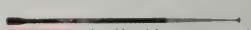
RH519 2m/70cm slim dual-band HT antenna. Flexible. 8" BNC, 10 watts, +3dBR.



SRH519 2m/70cm dual-band HT antenna. Flexible. 8" SMA, 10 watts, +3dBR.



RH707 2m/70cm dual-band tiltable whip - HT antenna. 8 1/4" BNC, +3dBR..

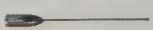


SRH789 Adjustable 1/4λ. 93-300MHz; 5/8λ. 300-1100MHz, 7 3/4"-32" +9dBR. BNC.

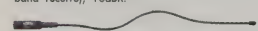
RH789 Adjustable 1/4λ. 93-300MHz; 5/8λ. 300-1100MHz, 7 3/4"-32" +9dB

SRH805 2m/70cm/23cm tri-band HT antenna. 1.75" SMA, 10 watts.

RH951S High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" BNC (Wide band receive), +6dBR.



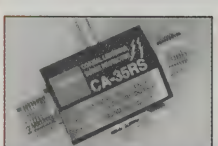
SRH815 2m/70cm/23cm tri-band HT antenna. Flexible. 6" SMA, 6 watts, +3dBR.



RHF40 Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15" BNC, +6dBR.

SRH999 6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5" SMA, 10 watts, +6dBR.

NOTES: 1. dBR refers to Relative gain increase over typical factory supplied antenna.



CA35RS

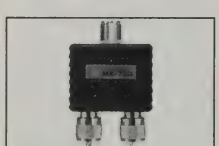
Dummy Loads & Coaxial Switches

CX310A

CX210A/N

DL30A/N

MODEL	DESCRIPTION
CA35RS	Lightning surge protector, DC-1000 MHz, 400w, SO-239
CA35RPW	Lightning surge protector, DC-1000 MHz, 400w, UHF(F) to UHF(M), Waterproof.
CA23RS	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F)
CA23RW	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F) Waterproof.
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak. PL-259
DL30N	Dummy load, DC-500 MHz. 15w average/100w peak. Type-N



MX72H/N

Duplexers & Triplexers

MX62M

MX72D

MX2000

MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY BAND (MHz)	LPF		HPF	LPF	BPF	HPF	LPF	HPF
	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
PWR CW (ICAS) WATTS P.E.P.	400 / 1000	150 / 400	100 / 250	800	800	500	600	
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL	60dB			60dB			50dB	
VSWR	1.2:1			1.2:1			1.2:1	
CONNECTOR COMPLEMENT	M MIX 144 430 M M	M MIX 144 430 M M	M MIX 144 430 M N	M MIX 50 144 430 M M M			M MIX HF VHF M M	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

DIAMOND ANTENNA

Designed for today's high performance antennas.

PREMIUM ANTENNA MOUNTS & CABLE ASSEMBLIES

K702M

K515

K550

K412

CRM

K400 Heavy Duty Hatchback/Door/Trunk Lid Mount

K400

Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

K400C*	SO-239 base, 6.5' RG-316/B coax & PL-259
K400CNMO*	NMO base, 6.5' RG-316/B coax & PL-259
K400-3/8C*	3/8X24 base, 6.5' RG-316/B coax & PL-259
K400S[1]	SO-239 base, 13.5' RG-316/B coax & SMA
K400SNMO[1]	NMO base, 13.5' RG-316/B coax & SMA

K412 Deluxe Hatchback/Door/Trunk Lid Mount

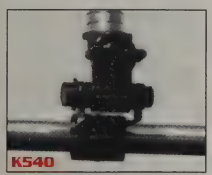
Two-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45°. Position adjusting knob.

K412C*	SO-239 base, 6.5' coax & PL-259	**K412CNMO***	NMO base, 6.5' coax & PL-259
K412S[1]	SO-239 base, 13.5' coax & SMA	**K412SNMO[1]**	NMO base, 13.5' coax & SMA

K515 Universal Luggage Rack Mount

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for light-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to fold over, and lock into horizontal position.

K515S[1] SO-239 base, 13.5' coax & SMA **K515SNMO[1]** NMO base, 13.5' coax & SMA


K540

K540 Mirror/Luggage Rack Mount

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45". Position adjusting knob allows antenna to fold over and lock into hoizontal position.

K540KM	SO-239 base, 13' coax & PL-259
K540	Mount Only

K550 Luggage Rack Mount

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.

K550KM SO-239 base, 13' coax & PL-259 **K550** Mount Only

K600

K600 Variable Angle Trunk Mount

Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.

K600M	SO-239 base, 16.5' two-step RG-188 Teflon® + 10" 5D coax & PL-259
K600S[1]	SO-239 base, 13.5' RG-316 Teflon® coax & SMA

K9000

K9000 Motorized Mount

Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45°. 0-90° range Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series. Recommended cable group: C213 / C213NMO

K9000TM*	Trunk/Hatchback Mount
K9000LRM*	Luggage Rack Mount

HRK5

HRK5 Adhesive Backed Mount

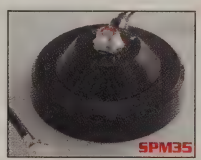
Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B Teflon® coax with SMA connector. PL-259 adapter included. Recommended antennas: NR770HA, NR770HB, and SGM510.

CRM Mirror & Luggage Rack Mount

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.

K702M Deluxe Low Profile Magnet Mount

Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4"h. For VHF/UHF antennas up to 50"h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.


SPM35

Heavy Duty Magnet Mount

2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45".

SPM35	SO-239 mount, with PL-259 connector.
DPK4NM-N	Type-N mount, with Type-N connector.
SPM-NMO	NMO mount, with PL-259 connector.

Cable Assemblies

C101

C101

SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO	Same as C101 with NMO base. For Diamond's K-Series mounts.
C213	Same as C101, 13.5' RG-316 Teflon® cable
C213NMO	Same as C101NMO, 13.5' RG-316 Teflon® cable

C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC	10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male.
C110SMA	Similar to C110BNC, terminates in SMA-male.
C211	SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

C110

C1045MA

C1045MA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

C1055MA

C1055MA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

* Use C110 for front radio installations.
[1] Includes SMA to PL259 adapter.

2M/70CM Dual Band Series Antennas

Radiall/Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Radiall/Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

NMO-2/70-SH **$44.99**

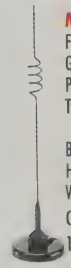
Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: NMOUHFBASEB w/spring
Height: 19"
Whip: WNMO2/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO-2/70B (black) **$74.99**

Freq: 144-148/440-450 MHz
Gain: 1.6/3.5 dBd
Power: 100 Watts
Type: VHF: Center Loaded 1/2 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO.



MM-2/70PL **$59.99**

Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200/100 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: 3' Round Mag Mount
Height: 18"
Whip: WMM2/70

Complete 2m/70cm magnetic mount antenna with 12' of RG-58A/U coax.

RADIALL/LARSEN
Radiall/Larsen Antenna Technologies
3611 NE 112th Avenue
Vancouver, WA 98682
360 944-7551, Fax: 360 944-7556
Email: info@radialllarsen.com
Web: www.radialllarsen.com

Kulglass Series High Performance Glass Mount Antennas

Radiall/Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Radiall/Larsen's unique bonding enhancer ensure the best possible grip to the glass.

KG-2/70-CX-PL **$129.99**

Freq: 144-148/442-448 MHz
Gain: 0/2 dBd • 2.4/4.5 dBd*
Power: 100 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Height: 32.75"

*Ground plane required for gain

Glass mount dual band antenna for 2m/70cm amateur radio frequencies.

KG-144-UD-PL **$89.99**

Freq: 144-160 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna.

KG-440-UD-PL **$73.99**

Freq: 440-460 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG4400/S
Conn: PL-259
Height: 15"
Whip: WKG440

Complete KG UHF glass mount antenna with coax and connector.

W-KG2/70 ..... **$29.99**

2M/440 On-Glass replacement Whip

Tri-Band Scanner Antenna

NMO-150450800 ..... **$29.99**

Freq: 150-165/450-470/806-940 MHz
Gain: -7/0/1 dBi
Type: Tri-Band Scanner Only
Mount: NMO
Height: 16.5"

Radiall/Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Radiall/Larsen portables. All center cores are made of brass or copper plated steel to maximize RF emission. Fully soldered connections and silver-plated components improve electrical efficiency. Double spring BNC's reduce wear on the mount. Other styles available.

KD4-146-HQ (2m) **$25.99**

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/4 Wave Helical
Conn: BNC
Height: 10.5"

KD14-2M-HW **$38.99**

Freq: 144-148 MHz
Gain: Unity
Power: 25 Watts
Type: 1/2 Wave Telescoping
Conn: BNC
Height: 11 to 44.5"
Whip: WKD142MHW

KD4-2/70 ..... **$39.99**

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave
Conn: BNC
Height: 9"

Impedance matching transformer provides high Q and deeper resonance.

KD14-445 ..... **$19.99**

Freq: 406-512 MHZ (SPEC 445 MHz)
Gain: Unity
Type: 1/4 Wave
Conn: BNC
Height: 6-1/2"

OM-150CK **$69.99**

Complete self-mounting no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.

Freq: 144-174 MHz
Gain: 2.5 dBd*
Power: 200 Watts
Type: 1/2 Wave
Height: 51.75"
Whip: W490
Coax: 17' of RG-58A/U

*Ground plane required for gain

Hear The Difference

Industry's Best NMO Mobile Antennas

Radiall/Larsen's own version of the standard 3/4" Motorola TAD/TAE type mount uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

NMO-27C (chrome) **$32.99**
NMO-27B (black) **$36.99**
Freq: 27-31 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Base: NMO27BC0
Height: 53"
Whip: W490

NMOQ-SPEC (chrome) **$9.99**
NMOQ-SPEC-B (black) **$15.99**
NMOQ-SPEC-K 3/4" Kit (chrome) **$24.99**
Freq: 136-960 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 22"
Whip: W200

NMO-50C (chrome) **$32.99**
NMO-50B (black) **$36.99**
Freq: 47-54 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Height: 52.5"
Whip: W490

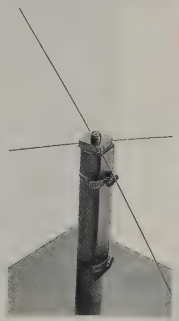
NMO-150C (chrome) **$30.99**
NMO-150B (black) **$33.99**
Freq: 144-174 MHz
Gain: 3 dBd
Power: 200 Watts
Type: 5/8 wave
Height: 51.5"
Whip: W490

NMO-440C (chrome) **$29.99**
Freq: 440-460 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 33"
Whip: W154

NMO-900B (black) **$39.99**
Freq: 890-960 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 12.75"
Whip: W195B .100, enclosed coil

Base Station Antennas

Radiall/Larsen manufactures a variety of small base station for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.



BSA-K $53.99
Freq: 144-512 MHz
VSWR: 1.5:1 or less
Power: 200 Watts
Conn: UHF Female
Whip: 51-3/4"
Complete base station kit for designing a base station unit from 144-512 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mobile GPS Antenna

GPS-NMO02 $69.99
Freq: 1575.4 MHz
Gain: 5 dBic/28 ±2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO mount
Height: 1.3" high x 2.9" diameter

Mounts

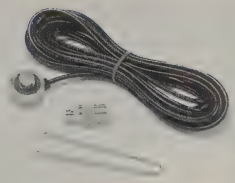
Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

NMO-K
Motorola-style
Roof Mount
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259
$15.99

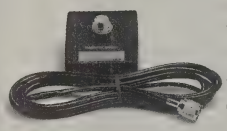
NMO-TLP
Motorola-style Low Profile Trunk Lip Bracket, black
Size: 1-3/4" x 1-3/4"
Coax: 17' RG-58A/U
Conn: PL-259
$29.99

NMO-MMR
Motorola-style Round Magnetic Mount
Size: 3-1/2" dia.
Coax: 12' RG-58A/U
Conn: 58FCP
Pull Strength: 90 lbs.
$32.99

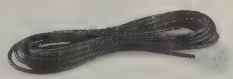
PO-K
SO-239 female type roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U
Conn: PL-259
$32.99



PO-MM
SO-239 female type magnetic mount
Size: 3-1/2 x 3" Rectangle
Coax: 17' RG-58A/U
Conn. 58FCP
Pull Strength: 90 lbs
$36.99



NMO-KHF-UD
NMO style roof mount
Size: 3/4" hole
Coax: 17' RG-58/U Dual Shield
Conn: 58FPC
$12.99



NMO-B38 NMO Snap-in Mount with A7 NLA adapter.. C/O **$12.99**

Parts and Accessories

W-490 ..... **$8.99**
Chrome .100 tapered replacement whip for 144 MHz. (49")

W-490B **$12.99**
Black .100 tapered replacement whip for 144 MHz. (49")

W-2/70B **$27.99**
Black .100 dia. replacement whip for NMO 2/70B (approx. 31")

RG-SS **$5.99**
3 Super Seal NMO Gaskets

SPRING **$10.99**
Shock Spring

HP-34 ..... **$3.99**
(5) 3/4" Rubber Hole Plugs

KG-REINSTALL **$8.99**
Reinstall Kit for KG's

NMO-CAP-B **$4.99**
Black NMO Rain Cap

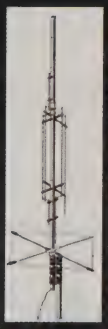
RADIALL/LARSEN
Radiall/Larsen Antenna Technologies
3611 NE 112th Avenue
Vancouver, WA 98682
360 944-7551, Fax: 360 944-7556
Email: info@radialllarsen.com
Web: www.radialllarsen.com

THE PERFECT ANTENNA

For almost 2 decades GAP has stated there is no perfect antenna. No singular antenna can do it all. That is why we designed a family of antennas that utilize the patented (#5.592.183), GAP Technology, to give you options. Within this family is the antenna right for you. If deed restrictions or visibility are a problem, take a look at the Eagle DX. If you are looking for a simple general coverage antenna with capture area, consider the Challenger DX. What about a low band antenna with great 40m and 80m performance? The Voyager DX is worth your attention. If you seek the most popular multiband antenna, then the Titan DX will end your search.

The GAP Technology eliminates traps, electromechanical devices and coils, which can increase loss and decrease reliability. Simplicity in design results in a very user friendly assembly process. Slide one tube over another until the big hole lines up with the little and insert a screw. A GAP is pretuned, will handle 1500W PEP, and has a VSWR < 2:1 across the entire band.*

CATCH THE WAVE



TITAN DX

10m, 12m, 15m, 17m, 20m, 30m, 40m, & 80m

25' tall 25 lbs

Mounts on 1-1/4" OD mast

No radials required.

*VSWR under 2:1 on 80m 100 KHz

CHALLENGER DX

2m, 6m, 10m, 12m, 15m, 20m, 40m, & 80m

31.5' tall 21 lbs

Drop in ground mount supplied.

3 counterpoises required 25' long.

*VSWR under 2:1 on 80m 130 KHz

VOYAGER DX

20m, 40m, 80m, & 160m

45' tall 39 lbs

Supllied with hinged ground mount.

3 counterpoises required 57' long.

*VSWR under 2:1 on 160m 90 KHz

EAGLE DX

10m, 12m, 15m, 17m, 20m & 40m

21' tall 19 lbs

Mounts on 1-1/4" OD mast

No radials required.

*40m limited to 400 watts

QUICK TILT

The easy way to raise and lower your antenna, support mast or flagpole. Works with most antennas.

GROUND MOUNT

Accomdates 1 1/4" 2" OD Mast

LADDER MOUNT

STAINLESS STEEL & ALUMINUM CONSTRUCTION

ANTENNA ACCESSORIES FOR ALL

GUY KITS

Insure your antenna or support mast against the elements with a Guy Kit.

STAINLESS STEEL & ALUMINUM CLAMP
3/32" UV Protected Black Double Braided Polyester Rope

NOISE CANCELLATION EQUIPMENT

PROVIDES 9–35dB DSP RECEIVE NOISE CANCELLATION

HEAR IT IN-LINE MODULE

Put a HEAR IT in-line Module between your rig and speaker and KILL noise.

- 8 User Selectable levels of DSP noise cancellation
- Audio & Line level inputs and outputs
- 12-24 VDC • 2.5W maximum audio output
- On/Off audio bypass switch
- Headphone jack
- Dim: 6.75"w x 3.35"h x1.4"d

HEAR IT SPEAKER

Base or Mobile – the HEAR IT will dramatically improve your reception.

- 8 user selectable levels of DSP noise cancellation
- 12-24 VDC power requirement
- 2.5W maximum audio output
- Input sensitivity control
- Headphone jack
- On/Off audio bypass switch
- 6 ft. audio lead with 3.5mm plug
- Dim: 4.5"w x 2.75"h x 2.25"d

For Prices see GAP in the PRICE GUIDE

FRONT VIEW

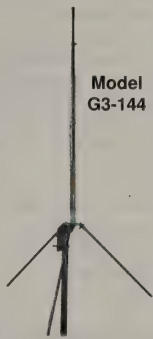
REAR VIEW

HUSTLER®

VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G3-144 . . . . $70.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

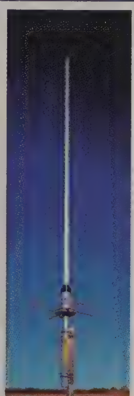


Model G3-144

ELECTRICAL
- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: SO-239
- Length: 7' 5"
- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.^{2}
- Mounting: 1 to 1 ¾"
- Construction: High strength fiberglass & aluminum.

Model G6-270R $189.99
Dual band
2 Meter & 440 MHz

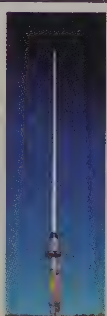


G6-270R

ELECTRICAL
- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz – 2 Meters, 10 MHz – 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: N female
- Length: 7' 6"
- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.^{2}
- Mounting: Up to 1 ¾"
- Construction: one piece radome

Model G6-440 . . . . $169.99



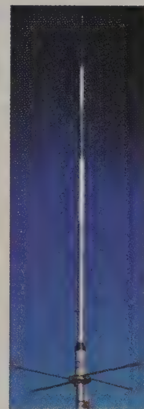
G6-440

ELECTRICAL
- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: Type N female
- Length: 7' 3"
- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.^{2}
- Mounting: Up to 1 ¾"
- Construction: one piece radome

Model G7-144 . . . . $189.99
Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

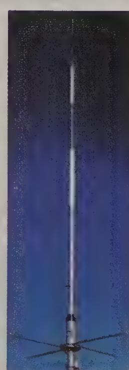


G7-144

ELECTRICAL
- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: N female
- Length: 15' 4"
- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.^{2}
- Mounting: Up to 1 ¾"
- Construction: High strength fiberglass & aluminum.

Model G6-144B $129.99
Two Meter



G6-144B

ELECTRICAL
- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: SO-239
- Length: 9' 9"
- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.^{2}
- Mounting: Up to 1 ¾"
- Construction: High strength fiberglass & aluminum.

Model G7-220 . . . . $159.99

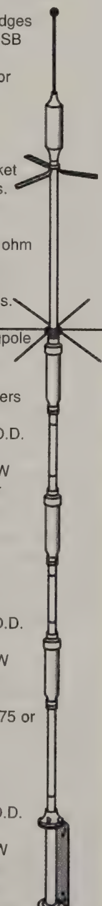
G7-220

ELECTRICAL
- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL
- Termination: Type N female
- Length: 10' 2"
- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.^{2}
- Mounting: Up to 1 ¾"
- Construction: High strength fiberglass & aluminum.

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and **permanent** resonance. Our highly accurate traps provide top signal reports and consistent contacts.
Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.



- Broadbanded – low VSWR at band edges
- Power capability – full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

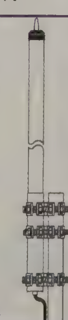
Model 6-BTV $189.99
Bands 10-15-20-30-40 & 75 or 80 meters
Length/weight 24 ft. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 5-BTV $169.99
Bands 10-15-20-40 & 75 or 80 meters
Length/weight 25 ft. 1 in. / 16.5 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV $139.99
Bands 10-15-20-40 meters
Length/weight 21 ft. 5 in. / 15 lbs.
Mounting Vertical support up to 1.75" O.D.
Wind Load 28 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 1.6:1 at band edges

Model 30-MTK $45.99
30 meter add on kit for the 4 and 5 BTV

Spirit Series - Repeater Antenna



Hustler's ominidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions.
Great for your club or tower use.
We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3,6,9, or 12 dB depending on the frequency.
Custom frequencies available, call for a quote.

New-Tronics Antenna Corporation
One New-Tronics Place
Mineral Wells, Texas 76067-9563

Phone: **940.325.1386**
Toll Free: **877.994.9499**
Fax: **940.328.1409**

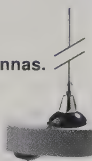
www.new-tronics.com

VHF and UHF Mobile Antennas

Unity Gain

THF $24.99

VHF/UHF Trunk Lip Mount Antennas.



- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector

UHT-1 . . . . $15.99

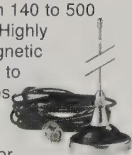
VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

UGM $23.99

VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



Collinear Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB $16.99
SF-220 220 MHz 3.4 dB $16.99

- Power rating: 100 watts
- 3/8" x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB . . $26.99
RX-220 220 MHz 3.4 dB . . $26.99
RX-440 440 MHz 5.0 dB . . $26.99

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector

Collinear High Gain Mobile Antenna

CG-144 5.2 dB 6 MHz BW $34.99
CG-220 5.2 dB 4 MHz BW $34.99

- Power rating: 200 watts
- 3/8"x24 thread
- 5/8 over ¼ wave
- Collinear design

CGT-144 5.2 dB 6 MHz BW . . . $55.99
CGT-220 5.2 dB 4 MHz BW . . . $55.99

- Coil same as above
- Swivel ball for vertical positioning
- Quick disconnect for easy removal
- Trunk mount base

MKR-2 Radial Kit $22.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded coil and contains three radials

New-Tronics Antenna Corporation
One New-Tronics Place
Mineral Wells, Texas 76067-9563

MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB . . $34.99
MX-220 220 MHz 3.4 dB . . $34.99
MX-440 440 MHz 5.0 dB . . $36.99

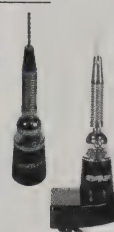
- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector

MX-2B 144 MHz 3.4 dB . . $39.99
MX-440B 440 MHz 5.0 dB . . $39.99

- Same as above but all black coil

BBG Series NMO Swivel Ball & Spring Antenna

BBG-144 3.4 dB . . $39.99
BBG-440-5 5.0 dB . . $39.99



- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

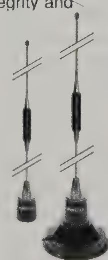
BBGT-144 3.4 dB . . $49.99
BBGT-440-5 5.0 dB . . $49.99

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector

Dual Band 2 meter/ 70cm Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . . $31.99



- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

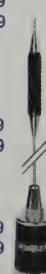
MX-270 . . . . $59.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector

LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . $25.99
LMG-440-5 5.0 dB gain . . $19.99



- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

LMC-144 3.4 dB gain . . $23.99
LMC-440-5 5.0 dB gain . . $19.99

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top

LMB-144 3.4 dB gain . . $22.99
LMB-440-5 5.0 dB gain . . $19.99

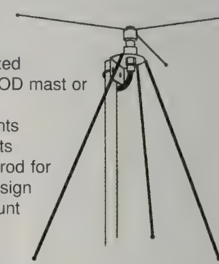
- Power rating: 200 watts
- NMO style coil
- Black coil

HUSTLER®

Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX $25.99



- 40 – 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included

DCLB . . . $37.99

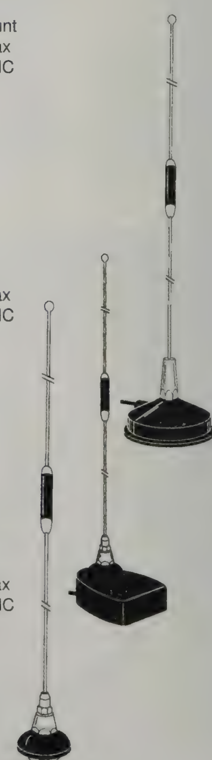
- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC

Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB . . . $21.99

- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC



MOTB . . . $21.99

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC

MORB . . $20.99

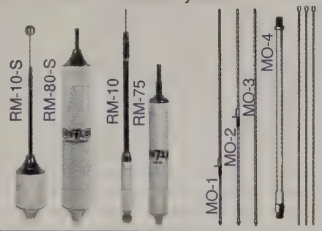
- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.328.1409

Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	$16.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	$16.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	$16.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	$16.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	$23.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	$23.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	$26.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	$26.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	$28.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	$28.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	$28.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	$25.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	$25.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	$26.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	$30.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	$38.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	$53.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	$53.99



Mobile HF Antennas
Hustler Masts

MO-1 . . . . $33.99
Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

MO-2 . . . . $33.99
Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3 . . . . $25.99
Mobile mast, 54" length, for bumper. fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

MO-4 . . . . $21.99
Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Professional Chrome Series

C-32 . . . . $12.99
Chrome plated 1 ½" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.

C-30 . . . . $12.99
Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

C-29 . . . . $19.99
Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

Resonator Spring

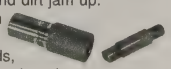
RSS-2 . . . . $12.99
Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.

Magnet Mount $21.99
MBM "Super" Magnet

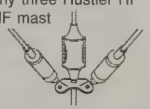
- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for VHF/UHF antennas up to 48".

Quick Disconnect

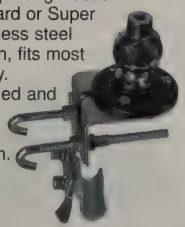
QD-2 . . . . $21.99
100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



VP-1 . . . . $6.99
Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



Bumper Mount BM-1 . . . . $23.99
Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



Professional Stainless Steel Series

SSM-1 . . . . $49.99
Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

SSM-2 . . . . $28.99
Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3 . . . . $26.99
Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.

HLM . . . . $24.99 Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

TLM . . . . $23.99 Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

HOT . . . . $25.99 Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.

RVM . . . . $22.99 Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.

160-6 Meters Mobile

PHF Series Antennas

Single band whips consisting of a black fiberglass lower section with integrated coil and an adjustable and removable stainless steel whip, except for the PHF-160. These time-proven HF antennas are especially designed for maximum efficiency, low VSWR and broad bandwidth. They are power rated for 250 Watts P.E.P. and built to withstand considerable use. Standard 3/8" x 24 thread base. Assembled length on all models is 96 in. (the PHF-6 is 58 in.).

The model **DAK-AD** Dual Adapter Mount ($13.99) accepts two antennas to make up a single band vertical or horizontal dipole which is perfect for limited space or portable operation..

Model	Band	Bandwidth	Price
PHF-160	160M	12 kHz	$89.99
PHF-75	75M	36 kHz	$29.99
PHF-40	40M	60 kHz	$23.99
PHF-30	30M	100 kHz	$23.99
PHF-20	20M	150 kHz	$23.99
PHF-17	17M	175 kHz	$23.99
PHF-15	15M	200 kHz	$23.99
PHF-12	12M	300 kHz	$23.99
PHF-10	10M	500 kHz	$23.99
PHF-6	6M	1000 kHz	$23.99

Thru Glass 2 Meter

GM-144 $39.99

Mounts on windshield and operates thru-the-glass to a tuning unit mounted on the inside. Features a 27-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.5 dB over a 1/4 wave. VSWR is 1.5:1 through the band. Rated for 50W. Tunable.

Some autos have "passivated glass" which does not permit thru-glass antennas to work. Check your manual or with your dealer.

GM-144

Thru Glass 2M/70CM

GM-270 $59.99

Dual Band 2M/70cm thru-the glass antenna featuring a 26-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.6 dB over a 1/4 wave at 2m and 4.0 dB over 1/4 wave at 70 cm. VSWR is <2:1 through the bands. Rated for 50W. Tunable.

GM-270

TGS $34.99

Thru-the-glass Scanner Antenna for 112-1200 MHz **receive only**. Looks like GM-270, 22 in.tall, complete with cable connectors and mounting hardware.

MM-270B $19.99

Dual Band 2M/70cm MICRO-MAG™ with a 1-1/8 in. black ABS rare earth magnetic base and stainless steel 20 in. whip. A 2M 1/4-wave and 70 cm 5/8-wave with unity gain and 1.5:1 VSWR throughout the bands. Rated for 50W on 2m and 25W on 70 cm. Has 9 ft. of RG-174 cable to a BNC.

MM-270B

VAA-002B/BBN

Magnet Mount Antennas

VAA-002B $23.99

2 meter 1/4 wave antenna with a 3-1/4 in. magnetic base. 19 in. 17-7ph stainless steel whip and 12 ft. of cable with PL-259 connector. Can also be trimmed for 220 or 450 MHz operation. Black finish.

VAA-002BBN $24.99

Same, but with BNC connector

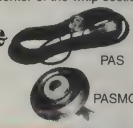
PM-144-440BN $29.99

Dual band: 2M (unity gain) and 440 MHz (2.1dB gain), 18-3/4 in. tall with 3 in. dia. magnetic base and 12 ft. of RG-58 cable with BNC connector

PM-144-440BN looks similar to VAA-002BBN except it has an open loading coil in the center of the whip section

PMM-3B $19.99

Tri-Band (40W) 2M / (24W) 70cm + (15W) 824-896 MHz (Cellular/Scanner). Similar to VAA-002BN MICRO-MAG™ above. Only 13-1/2 in. tall with 9 ft. coax and BNC.


PAS

PASMO

PAS $19.99

Motorola-style surface mount with 17 ft. of RG-58 cable and PL-259 connector. Installs in 3/4" hole in roof, fender or cowl mount.

PASMO $7.99

Motorola-style 3/4" hole surface mount only, less cable and connector

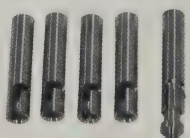
Mounts

105ADT $6.99

Mount assembly. Nickel plated brass SO-239 and extra HD hex. For Plug to plug connections.

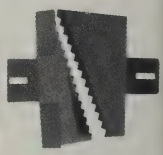
105HDT $3.99

Mount assembly. Bolt mounts through a 1/2 in. hole. Extra HD-duty nickel plated brass hex. For plug to lug.



103S $24.99

Quick disconnects for quick antenna removal One 3/8" x 24 base and five spring loaded twist-lock connectors.



120 $9.99

Radio Hump Mount. Saw-tooth design grips without damage to carpet. Adjustable, steel, baked black finish.

Multi-Band Mobile

AST-6BTV $119.99

Suitable for passenger Vehicles, SUVs and light pick-ups. Covers 6 through 80 Meter Amateur Bands. Stainless Steel Whip, nickel-plated brass hardware and copper loading coils. Gloss black, gold labeled resonators and stainless steel whip. Suitable for portable or inexpensive fixed location operation. Mast fits any standard 3/8 x 24 thread mobile mount.

Dual Band 2M & 70CM +

MO144-440 $21.99

A dual band antenna to over it all! 19" Covers 2M/70cm plus works great for all band scanners 25 MHz-1.3 GHz. Stainless steel whip. Mount with 1-1/8" threads match 3/4" hole pro•am and Motorola TAD/TAE mounts. SWR less than 2:1. Gain: unity on 2m and 2.1dB over a 1/4 wave on 70 cm.

MO144-440

101ADN

100ADT

100ADT $9.99

Extra heavy duty aluminum 3-way mirror mount. 3/8" x 24 mount and SO-239 connection

101ADN $10.99

HD alum. double groove horizontal mirror mount. 3/8" x 24, SO-239

100ADN $10.99

Extra heavy-duty aluminum double groove Mirror Mount with 3/8" x 24 mount and SO-239 connection.

SS-100MOT $23.99

Stainless steel 3-way Mirror Mount with a Motorola-style mount. Includes 10 ft. of RG-58 cable with PL-259.

DAK-AD $13.99

Dipole Adapter Mount with one Lug and one SO-239. Accepts two PHF or other 3/8"x 24 antennas for vertical or horizontal dipole.

2 Meters

CX-144

AST-6BTV

PHB-144

PHB-144 $29.99

5/8 wave, 3dB gain over 1/4 wave, covers 144-174 MHz. Tuned, low loss coil with 1-1/8" threads to match Pro•am and 3/4 in. hole Motorola TAD/TAE mounts. Rated 100W, whip length 49 in.

CX-144 $19.99

5/8 wave, 3 dB gain over 1/4 wave. Heavy duty matching coil with standard 3/8" x 24 chrome-plated base. Rated at 100W, length 49 in.

Utility

PAQA $10.99

A unity gain stainless steel UHF/VHF whip that covers 136 to 866 MHz with cutting required. Nickel/chrome plated brass base with 1-1/8" threads to match Pro•am and 3/4" hole Motorola TAD/TAE mounts. includes cutting chart.

PAQA

PAT-2

PAT-2 $14.99

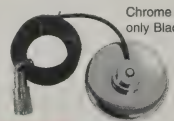
CLOSEOUT

Chrome low profile Motorola-style trunk-lip mount with 17 ft. of RG-58 cable with PL-259 connector. Model **PAT-2B** is BLACK. **$19.99**

AST-GPK

AST-GPK $29.99

Ground mount and radial kit for AST-6BTV


Chrome shown but only Black available

PAMB $24.99

A black 3-3/4 in. diameter low profile magnet Motorola mount pre-wired with 12 ft. of RG-58 cable to a PL-259 connector.

301 $16.99

4 in. dia. with 3/8" x 24 mount.

401 $19.99

5 in. dia. with 3/8" x 24 mount.

MM-3401 $59.99

Heavy Duty magnet mount for NMO based antennas with adapter for 3/8" x 24 thread. Features three 5 in. dia. magnets on a heavy duty aluminum frame protected by an ABS plastic cover. Includes 17 ft. of RG-58 cable with PL-259 connector. Dim: 9-1/2" x 9-1/2" x 2"h. Wt: 8 lbs.

PAN-38 $14.99

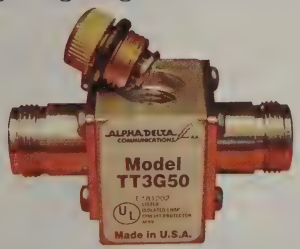
3/8" x 24 to NMO mount adapter

Effective Atmospheric Surge Voltage Protection

Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your hamshack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage … and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to do a good job of proper grounding as outlined in the ARRL Handbook, etc.

Lightning Surge/EMI Protectors



UL LISTED – Certified protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

Models:

ATT3G50
0-3000 MHz; 200W; N Female **$59.99**

ATT3G50-HP
0-3000 MHz; 2000W; N Female **$59.99**

ATT3G50U
0-500 MHz; 200W; UHF (SO-239)..... **$49.99**

ATT3G50U-HP
0-500 MHz, 2000W; UHF (SO-239)..... **$49.99**

Replacement Arc-Plug Cartridges

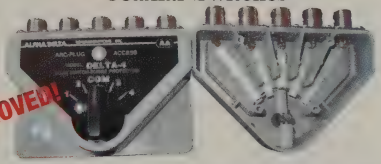
ATT/3G50 for ATT3G50 or ATT3G50U.. **$14.99**

ATT-HP/3G50HP for ATT3G50-HP and ATT3G50U-HP..... **$14.99**

More information and specifications for models on this page, and the new OCF Off Center Fed antenna, go to Alpha Delta's website. *Note: OCF – factory direct only*

www.alphadeltacom.com

Lightning Surge Protected Coaxial Switches



IMPROVED!

- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Uses constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies
- Precision machined switch shaft and rotation mechanism with solid positive detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Automatically grounds unused antennas to reduce antenna interaction, noise and the effects of lightning and static charges.
- Rated for Full Legal power.

Models:

DELTA-2B – 2-position, with SO-239 connectors and rated for operation up to 500 MHz..... **$59.99**

DELTA-2B/N – 2-position, with N-type connectors, rated for operation up to 1.3 GHz..... **$75.99**

DELTA-4B – 4-position, with SO-239 connectors, rated for operation up to 500 MHz..... **$89.99**

DELTA-4B/N – 4-position, with N-type connectors, rated for operation up to 1.3 GHz..... **$99.99**

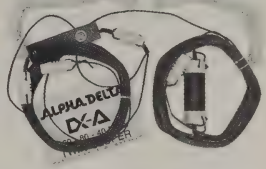
Antenna Insulator Kit with Surge Protection

DELTA-C – Includes a center insulator and two end insulators. The best for dipoles and wire antennas using either coaxial cable or balanced feed line. Highest quality and rugged – made from an virtually unbreakable UV/RF resistant material. Stainless steel hardware is used in the center insulator, and all connections are hard soldered. Handles full legal power. An easily replaceable built-in Arc-Plug® in the center insulator provides protection from the effects of lightning and static charges..... **$29.99**

SEP – Replacement Arc-Plug® cartridge.. **$15.99**

DELTA-CIN – End insulator only ..... each **$1.99**

Limited Space Sloper



- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

DX-A – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long..... **$100.99**

DX-B – A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground **$110.99**

Shortened Multibanders

- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon support rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally as an inverted V.

DX-CC – 80-40-20-15-10M, 82 ft. long. **$160.99**

DX-DD – 80/40M, 82 ft. long..... **$130.99**

DX-EE – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long..... **$140.99**

DX-LB – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using a wide range antenna tuner, 100 ft. **$160.99**

DX-LB PLUS – Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft..... **$190.99**

Full-Size Monoband Dipoles

- 50 ohm coax feed, no traps, handles full power
- Installs horizontally or as an Inverted V
- Rugged, full-size performance
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

DX-80 – 75/80 meters, 134 ft. long **$70.99**

DX-40 – 40 meters, 67 ft. long **$70.99**

DX-20 – 20 meters, 34 ft. long **$70.99**

AV-18HT Hy-Tower 10/15/20/40/80M Vertical – The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance .. Drop Ship **$849.99**

Specifications
- **Bands:** 10, 15, 20, 40, and 80 Meters
- **Gain:** Unity 20, 40, 80; 2 dB on 10/15
- **80M Bandwidth:** 250 kHz @ 2:1 VSWR
- **Power:** 1500W PEP
- **Height:** 53 feet
- **Weight:** 114 pounds
- **Wind Survival:** 75 MPH

AV-18HT-JR Hy-Tower Jr. – Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy walled 2 in. aluminum main radiator swedged at the top. Mounts on 1-1/4 in. pipe..... **$349.99**

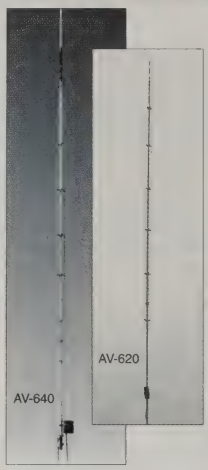
Specifications:
- **Bands:** 10, 15, 20, 40, and 80 Meters
- **Power:** 1500W PEP
- **Height:** 39 ft.
- **Weight:** 25 pounds
- **Survival:** Self-supporting up to 40 mph
- **Mast Size:** 1-1/4 in.

AV-14AVQ 10/15/20/40M Vertical – A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware..... **$169.99**

Specifications:
- **Bands:** 10, 15, 20, and 40 Meters
- **Power:** 1500W PEP
- **Height:** 18 ft.
- **Weight:** 9 pounds
- **Wind Survival:** 80 MPH
- **Mount:** 1.5 in - 1.625 in. pipe

AV-18AVQ II 10/15/20/40/80M Vertical
Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs .. **$229.99**

DX-88 10/12/15/17/20/30/40/80M Vertical
All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs..... **$369.99**



Multi-Band *PATRIOT* Vertical Antennas

- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W

AV-640 6 to 40 Meter Vertical – Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12, and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30, 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counter poise system replaces conventional ground radials. Mounts easily on decks, roofs, and patios..... **$399.99**

Specifications:
- **Bands:** 6, 10, 15, 17, 20, 30, and 40 Meters
- **VSWR at resonance (typical):** 1.5:1
- **Power Handling:** 1500W, key down 2 minutes
- **Vertical Radiation Angle:** 17 degrees
- **Horizontal Radiation Angle:** 360 degrees
- **Height:** 25.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.5 square feet
- **Wind Survival:** 80 mph

AV-620 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable..... **$299.99**

Specifications:
- **Bands:** 6, 10, 15, 17, and 20 Meters
- **VSWR at resonance (typical):** 1.5A
- **Power:** 1500W, 2 minutes key down
- **Vertical Radiation Angle:** 17°
- **Height:** 22.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.4 sq. ft.
- **Wind Survival:** 80 MPH

Single Band HF Beams

- **Stronger, lighter, less surface area & years of High Performance**
- **Exclusive 50 ohm *BetaMatch™* for Direct Coax feed with great match and DC grounding • A BN-86 50Ω Ferrite Balun is recommended for improved front-to-back ratio.**

LJ-103BA 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain..... **$159.99**
LJ-105CA 10 Meters, 5 Elements, 24 ft. boom, 10.8dBi Gain... **$289.99**
LJ-153BA 15/12 Meters, 3 Elements, 12 ft. boom, 7.9dBi Gain .. **$209.99**
LJ-204BA 20/17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain .. **$539.99**

TH-7DX 7-Element Tri-Band Beam, 10/15/20 Meters – A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun..... **$799.99**

Specifications:
Gain: 8.77dBi • **F/B:** 21dB • **Power:** 1500W PEP • **Boom Length:** 24 ft. • **Longest Element:** 31 ft. • **Turning Radius:** 20 ft. • **Mast Diameter:** 1.5-2.5 in. • **Surface Area:** 9.4 sq. ft. • **Wind Load @ 80 mph:** 240 lbs • **Wind Survival:** 100 mph • **Weight:** 75 lbs

TH-5MK2 5-Element Tri-band Beam, 10/15/20 Meters – Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun **$699.99**

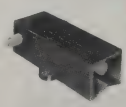
Specifications:
Gain: 8.3dBi • **F/B Ratio:** 20dB • **Power:** 1500W PEP • **Boom Length:** 19 ft. • **Longest Element:** 31.5 ft. • **Turning Radius:** 18.42 ft. • **Mast Dia.:** 1.5 - 2.5 in. • **Surface Area:** 7.4 sq. ft. • **Wind Load @ 80 mph:** 190 lbs • **Wind Survival:** 100 mph. • **Weight:** 57 lbs.

TH-3MK4 3-Element Tri-band Beam, 10/15/20 Meters – The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended..... **$469.99**

Specifications:
Gain: 8.0dbi • **F/B Ratio:** 25dB • **Power:** 1500W PEP **Boom:** 14 ft. • **Longest Element:** 27.42 ft. • **Turning Radius:** 15.33 ft. • **Mast Diameter:** 1.9-2.5 in. • **Wind Area:** 4.6 sq. ft. • **Wind Load @ 80 mph:** 118 lb • **Wind Survival:** 95 mph • **Weight:** 35 lbs.

TH-3JRS 3 Element Tri-Band Beam, 10/15/20 Meters – The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design. **$359.99**

Specifications:
Gain: 8.0dBi • **F/B Ratio:** 25dB • **Power:** 600W PEP • **Boom Length:** 14.75 ft. • **Longest Element:** 27.25 ft. • **Turning Radius:** 14.3 ft. • **Mast Dia:** 1.25-2.0 in. • **Wind Area:** 3.35 sq. ft. • **Wind Load @ 80 mph:** 83 lbs • **Wind Survival:** 80 mph • **Weight:** 21 lbs.



BN-86 Broadband 50Ω Ferrite Balun – Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector..... **$79.99**

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Barker & Williamson

AP-10B Window/Portable 300W PEP Antenna – A quick and dependable antenna system when larger antennas cannot be used. Covers 2 thru 40 meters clamped to a window ledge, a railing or table. Tunes to low VSWR by tapping a fly lead up or down the base coil and adjusting the position of the supplied counterpoise wire. The whip extends to 51 in. during operation, collapsing to less than 24 in. to easily fit in a suitcase or briefcase for travel. Use one to get on the air regardless of covenant restrictions. Supplied with mounting bracket and clamp, counterpoise wire and 10 ft. of coaxial cable..... **$89.99**

MFJ

1622 Apartment Antenna – Operate 40 thru 10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope..... **$99.99**

1910 Telescoping Fiberglass Mast – Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DX-peditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33 ft. and collapses to 3.8 ft. Bottom section 1.75 in. diameter; 3.3 lbs . **$79.99**

Telescoping Whips – Available in 12 and 10 ft. lengths. Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base loaded antenna to greatly improve the efficiency. Use two to make a portable dipole.

1956 12 ft. extended, 22.5 in. collapsed..**$29.99**
1954 10 ft. extended, 29 in. collapsed.....**$22.99**

1/2-wave, 6-Band No-radials Vertical 12 ft. tall, Mounts Anywhere, 40-6M

1796 – Only 12 feet high with a tiny 24 inch foot print. Mount anywhere – ground level to tower top – apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions, camping. Efficient end loading, no lossy traps. entire length always radiating. Automatic bandswitching, low angle radiation, omni-directional, handles 1500W PEP **$209.99**

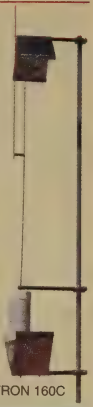
ISOTRON BILAL COMPANY

www.isotronantennas.com

Simple & Effective...

ANTENNAS FOR VERY LIMITED SPACE

- Easy, quick, and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.



Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50–75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Cast acrylic and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
hxwxd (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16½x2x4
BW	100 kHz	110 kHz	250 KHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	**$173.99**	**$98.99**	**$88.99**	**$78.99**	**$78.99**	**$78.99**	**$78.99**

80/40 COMBO – (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32"h x 16"w x 30"d; 10 lbs..... **$177.99**
(requires coaxial "T's" and jumpers - not included)

20/15/10 COMBO – Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 4"h x 32"w x 30"d; 10 lbs..... **$198.99**

40/20 COMBO – Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during the 2005 weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 22"h x 16"w x 32"d; 6 lbs..... **$167.99**

***SPECIAL ORDER!* – You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.**

Portable 40-10M Antenna

1621 – A complete portable 10 through 40 meter antenna for use in practically any location – apartment, campsite, hotel, even at the beach. Consists of a 54 in. telescoping whip antenna mounted on a sturdy, cabinet which contains an built-in antenna tuner and field strength meter. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. Just place the unit in any electrically clear location, set the bandswitch, apply power, and tune the capacitor for maximum field strength. The whip is easily removable and collapses to 22 in. for easy portability. Dim: 6"w x 3"h x 6"d, 3 lbs **$99.99**

Super High-Q Loop Antennas for Limited Space

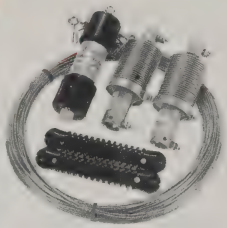
1786 – The loop is only 36 in. in diameter but operates 10-30 MHz continuously and handles 150W. Mounts vertically for low angle DX or horizontally for local work. Automatic tuning remote control box tunes to the desired band and Fast/Slow tune buttons and built-in two range Cross-Needle SWR/Wattmeter let you quickly tune to an exact frequency. No control cable is needed. All welded construction, no mechanical joints, polished butterfly capacitor prevents arcing. Large 1.050 in. diamater round tubing..... **$399.99**

1788 Super High-Q Loop Antenna – Same as the MFJ-1786 but covers 40-15 meters..... **$449.99**

UNADILLA

5-Band Antenna Kit

W2AU/W2VS



Resonant on 40 and 80 meters. On 10, 15 and 20 meters the SWR typically 2:1-4:1, and with some transceivers a transmatch may needed. Length is 110 ft., rated for 2 KW PEP. Includes a pair of 40M traps, W2AU balun, end insulators and 120 ft. of #14 stranded antenna wire..... **$85.99**

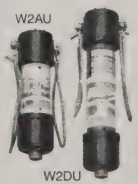
REYCO Antenna Traps

Add these traps to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "perfect dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 & 160M with low SWR.

Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.

KW-10 – 10 Meters ..... pair **$41.99**
KW-12 – 12 Meters..... pair **41.99**
KW-15 – 15 Meters..... pair **41.99**
KW-17 – 17 Meters..... pair **41.99**
KW-20 – 20 Meters..... pair **41.99**
KW-30 – 30 Meters..... pair **42.99**
KW-40 – 40 Meters..... pair **42.99**
KW-60 – 60 Meters..... pair **46.99**
KW-80CW – 80 Meters CW ..... pair **48.99**
KW-80F – 80 Meters Phone ..... pair **48.99**

W2AU Ferrite Baluns



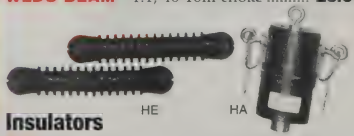
Replaces the antenna center insulator. Smooth unbalanced to balanced transition ensures proper current distribution. DC grounded for lighting protection, center support hook. Usable from 1.8-40 MHz, 2KW PEP rating, SO-239 connector.

W2AU 1:1 – 1.1, 1.8-40 MHz ferrite..... **$24.99**
W2AU 4:1 – 1.1, 1.8-40 MHz ferrite **24.99**
W2AU BEAM – 1.1, Beam balun **24.99**

W2DU Choke Baluns

High efficiency, *transformerless* 1:1 baluns. The HF model is the only one available that works on 160 meters! All rated to handle a VSWR up to 5:1 at the legal limit, allowing use with antenna tuners.

W2DU-HF – 1:1, 1.8-30 MHz Choke **$26.99**
W2DU-VHF – 1:1, 30-250 MHz Choke..... **26.99**
W2DU BEAM – 1:1, 40-10m choke **26.99**



Insulators

HA AN-Insulator™ – A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" dia **$9.99**

HE END-Insulator™ – Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1"dia..... pair **$6.99**

RadioWavz

HF Wire Antennas

The **G5RV** antenna, with its special feeder arrangement, is a Multiband center-fed antenna with very efficient operation on all HF bands from 3.5-28 MHz. Made with of high quality copper coated steel UV insulated wire on the top and a 300 ohm ladder line terminating into a SO-239 connector.

G5RV 102 ft. long, 32 ft. tall **$36.99**
G5RV JR 51 ft. long, 14 ft. tall **25.99**
G5RV LITE 68 ft. long, 32 ft. tall **40.99**
G5RV MAX 204 ft. long, 56 ft. tall **65.99**

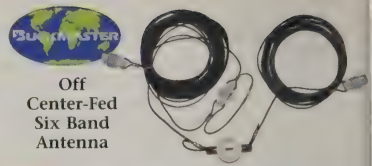
Nothing beats a **Tuned Dipole** with its simple, efficient, and versatile performance. With a dipole you configure the antenna as an inverted-V, flat top, or "L". The Dipole works best at the band that it is designed for, however with an antenna tuner coverage may be expanded. The included 1:1 balun isolates and converts the unbalanced transmission line to balanced for improved operation.

10MC/BALUN 17 ft. 10M dipole/balun .. **$33.99**
12MC/BALUN 19 ft. 12M dipole/balun ... **33.99**
15MC/BALUN 22 ft. 15M dipole/balun **33.99**
17MC/BALUN 26 ft. 17M dipole/balun **33.99**
20MC/BALUN 32 ft. 20M dipole/balun **37.99**
30MC/BALUN 46 ft. 30M dipole/balun **45.99**
40MC/BALUN 66 ft. 40M dipole/balun **45.99**
80MC/BALUN 130 ft. 80M dipole/balun.. **55.99**
160MC/BALUN 250 ft. 160M dipole/balun **75.99**

The **DOUBLE BAZOOKA** antenna is an extremely broad banded Half Wave Coaxial Antenna which can operate efficiently across an entire ham band with little change to the SWR. The design eliminates the need for a balun and can be fed directly with 50 ohm coax.

40M-DBZ 70 ft. 40M Double Bazooka **$45.99**
75M-DBZ 127 ft. 75M Double Bazooka **75.99**
160M-DBZ 265 ft. 160M Double Bazooka **125.99**

www.radiowavz.com



Off Center-Fed Six Band Antenna

OCF – Covers 75/80, 40, 20, 17, 12 & 10M without an antenna tuner. Rugged broadband design features an integral 6:1 balun and flexible, 65 strand 12 ga. PVC coated wire. The balun is permanently sealed to protect against the elements and is internally crimped and soldered to a silver/teflon® SO-239 connector; HD stainless eyebolt for attaching a support rope. A full 135 ft. long (45/90 ft. sections); instructions for erecting in only 68 ft. but with 40, 20 & 10M operation only. Rated 300W CW/SSB, fully assembled. Wt: 7 lbs **$189.99**

B&W Barker & Williamson

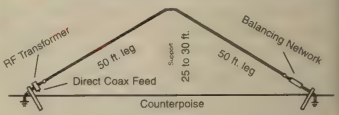
BROADBAND ANTENNAS

Field proven broadband HF antennas that operate all frequencies continuously from 1.8 to 30 MHz without an antenna tuner, plus 6 meters. The single antenna solution for amateur operation and more. If you are participating in various programs such as **MARS**, **ARES**, **RACES** or **CAP** these antennas will work all of your frequencies with a VSWR of 2:1 or better without measurements or tuning. It's a low noise design with outstanding receive capability. Better performance than any vertical and very reliable.

BROADBAND FOLDED DIPOLES

These antennas operate all HF frequencies continuously within their design range without an antenna tuner, plus 6M with a tuner. Install as flat top, inverted vee, or sloper. Constructed of #14 stranded copperweld wire. Unbalanced 50 ohm input with SO-239 connector. Handles 2KW PEP. Shipped completely assembled.

BWD-20 – 14-30 MHz, 20 ft. long **$239.99**
BWD-45 – 7-30 MHz, 45 ft. long **$239.99**
BWD-65 – 4-30 MHz, 65 ft. long **$249.99**
BWD-90 – 1.8-30 MHz, 90 ft. long ... **$249.99**
FDMK Folded Dipole – 3-pole mtg. kit . **$45.99**



BROADBAND END-FED VEE

AC-1.8-30 – Unique design covers 1.8-30 MHz continuous with less than a 2:1 VSWR without using an antenna tuner + 6M with a tuner. Installs with termination at both ends to grounded stakes (not included), and the center about 25 ft. above the ground. Omnidirectional, high angle radiation at lower frequencies. Increased angle from 5-15 MHz; above 15 MHz, more directional in the line of the antenna wire. In limited space, wire may be shortened without greatly affecting the VSWR, but lowering radiation efficiency. It's extra quiet to capture weak signals. Handles 2KW PEP. Comes fully assembled with #14 stranded copperweld wire, 110 ft. long. Weighs 7 lbs... **$249.99**

Van Gorden Engineering

Single Band Dipoles

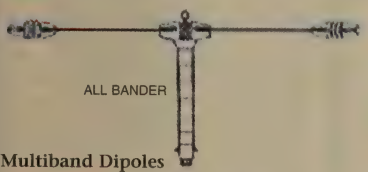
Complete with Hi-Q 1:1 balun, #14 stranded copper antenna wire, plastic insulators, and 100 ft. of nylon rope. Rated for full legal power (2kW). May be used in a flat-top or in an inverted-V configuration.

D-80 – 80 meters, 130 feet long..... **$41.99**
D-40 – 40 meters, 66 ft..... **38.99**
D-20 – 20 meters, 33 ft..... **36.99**
D-15 – 15 meters, 22 ft..... **35.99**
D-10 – 10 meters, 16 ft..... **34.99**

Shortened Dipoles

Construction is the same, and includes traps as shown above.

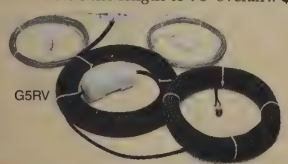
SD-80 – 80 meters, 90 ft..... **$46.99**
SD-40 – 40 meters, 45 ft..... **44.99**



Multiband Dipoles

ALL BANDER **All Bander Dipole** – Covers 160 to 10M using an antenna tuner with balanced output. Full 135 ft. long (or less, as an inverted V or sloper). Trim to fit small lots. Assembled, with #14 gauge copper wire, center and end insulators and 100 ft. of 450Ω balanced line. 2KW PEP... **$35.99**

SHORTY **All Bander** – As above, but with loading coils to shorten the length to 70' overall.. **$55.99**



G5RV – A unique dipole configuration that covers 3.5 to 30 MHz without traps, plus covers 1.8 MHz as a Marconi-type antenna using an antenna tuner. Consists of a 102 ft. flat top with a 31 ft. long section of KW twinlead, a combination transformer-coupler and 70 ft. of RG-8X coax and connector. Assembled, rated 2KW PEP..... **$60.99**
G5RV-JR – 7–30 MHz, 52', 17' twinlead... **30.99**
G5RV-E – 3.5–30 MHz, 102', 31' twinlead. **35.99**
G5RV-M – 1.8–30 MHz, 204', 65' twinlead **60.99**

Parallel-Wire Multiband Dipoles

Full-size, trapless multiband dipole performance using separate resonant-length wires for each band attached to a single center 50Ω feed point.

PD-4010 – 40/20/15/10M, 66 ft..... **$49.99**
PD-4020 – 40/20/15M, 66 ft..... **43.99**
PD-8010 – 80/40/20/15/10M, 130 ft..... **55.99**
PD-8040 – 80/40/15M, 130 ft..... **51.99**

Baluns & Insulators

Hi-Q 1:1 or **Hi-Q 4:1** **Baluns** For dipoles, yagis, inverted vees and doublets. Provides 1:1 or 4:1 impedance ratio for matching unbalanced coaxial cable to balanced antennas. Covers 3–40 MHz with a 1.5KW rating. Reduces feedline radiation for more power into antenna, and reduced TVI/BCI problems. Built-in DC ground reduces static noise and provides some lightning protection. Convenient SO-239 connector and center support eye hook; weatherproof.. ea. **$18.99**

ANTENNA CENTE **Hi-Q Antenna Center Insulator** Insulator only, no balun. Replaces egg-type center insulator. Small, rugged, lightweight, weatherproof, SO-239 connector, center supporting eye hook **$9.99**

ANTENNA END IN – End insulators pair **$6.99**
DOG BONE – Antenna insulator..... each **99¢**

Ladder Line

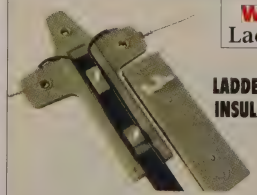
450 OHM 100 – 18 ga. 100' insulated... **$19.99**
450 OHM 14 100 – 14 ga. 100' insulated **39.99**
450 OHM 1000 – 18 ga. 1000' insulated **149.99**
450 OHM 14 1000 – 14 ga. 1000' insul **299.99**

White Nylon rope

NR-100 – 100' roll, antenna guy rope **$6.99**
NR-1000 – 1000' roll, antenna guy rope... **50.99**

Preassembled Coaxial Hook-ups

8X-1.5ST – 1.5' RG-8X, silver-tef. PL-259s **$9.99**
8X-3ST – 3' RG-8X w/silver-teflon PL-259s **10.99**
8X-6ST – 6' RG-8X w/silver-teflon PL-259s **12.99**
8X-12ST – 12' RG-8X, silver-teflon PL-259s **15.99**
8X-25ST – 25' RG-8X, silver-teflon PL-259s **22.99**
8X-50ST – 50' RG-8X, silver-teflon PL-259s **32.99**
8X-75ST – 75' RG-8X, silver-teflon PL-259s **40.99**
8X-100ST – 100' RG-8X, silver-tef. PL-259s **47.99**
213-25ST – 25' RG-213, silver-tef. PL-259s **34.99**
213-50ST – 50' RG-213, silver-tef. PL-259s **50.99**
213-75ST – 75' RG-213, silver-tef. PL-259s **72.99**
213-100ST – 100' RG-213, sil.-tef. PL-259s **90.99**



WA1FFL Ladder-Loc®

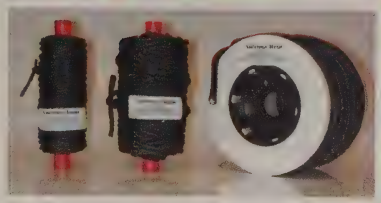
LADDER LINE CENTER INSULATOR/SUPPORT

Provides a secure attachment of 450 ohm ladder line to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point is provided for attaching a support rope. UV resistant..... **$12.99**

ORDER ON-LINE!
USE YOUR CREDIT CARD

We accept I.M.P.A.C.® Government Credit Cards

synthetic textiles, inc.

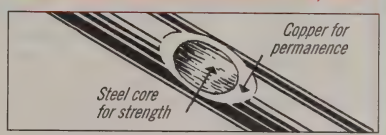


Black Dacron® Polyester Rope – Constructed of strong double braid Dacron® polyester. It's black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and ends seal effectively with the application of a small flame or hot tool.

After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. When used as an overhead boom support rope for beam antennas, it eliminates a conductive wire from the RF field, which is especially important in VHF/UHF applications.

100' – 100 ft., 260+ lbs., 3/32 in. **$9.99**
100' 3/16 – 100 ft., 770+ lbs., 3/16 in. **18.99**
100' 5/16 – 100 ft., 1790+ lbs., 5/16 in. **26.99**
350' – 350 ft., 770+ lbs., 3/16 in. **49.99**

MEADOW RIDGE PRODUCTS, INC.

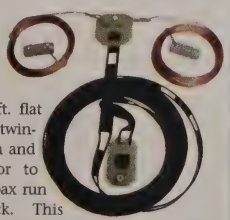


COPPERWELD® Antenna Wire

Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire – the best for antennas. Very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. Available in 12, 14 or 18 gauge.

AN-122 – 100 ft. #12..... **$39.99**
AN-123 – 150 ft. #12..... **49.99**
AN-124 – 250 ft. #12..... **79.99**
AN-126 – 500 ft. #12..... **139.99**
AN-128 – 1000 ft. #12..... **239.99**
AN-142 – 100 ft. #14..... **29.99**
AN-143 – 150 ft. #14..... **39.99**
AN-144 – 250 ft. #14..... **49.99**
AN-146 – 500 ft. #14..... **89.99**
AN-148 – 1000 ft. #14..... **169.99**
AN-181 – 250 ft. #18..... **24.99**
AN-182 – 500 ft. #18..... **39.99**

MFJ



1778 **All-Band G5RV Antenna** Center fed, 102 ft. flat top with a 300Ω twinlead feeder system and SO-239 connector to accept the 52Ω coax run from the shack. This unique design covers all bands 80-10 meters with a nominal VSWR, so using an antenna tuner is recommended with most rigs. Also can be installed as an inverted-V or sloper. Great on 160 meters operating as a Marconi with a tuner and good ground. Handles 1500W..... **$39.99**

Lakeview Co., Inc.

WD4BUM HAMSTICKS®

Two-Piece Monoband Mobile Antennas Hamstick 75 thru 10 meter models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black PVC shrink tubing. It's fitted on one end with a 3/8" X 24" brass base fitting that fits most amateur mobile mounts. A black 48 inch tempered stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6 meter model has a 34 inch base section and whip. Convenient frequency vs length graphs are included with the instructions.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, if it is, which may be especially true on 40 and 75m, you can capacitively match the base using values recommended in the instructions. If you frequently change bands you can use the **WD4BUM INDUCTI-MATCH (IM-1)** which consists of an impedance matching coil that simply installs at the base of the antenna. Using the supplied clip lead, you just tap up the coil for the best match.

Models

9106 (6M) **9110** (10M) **9112** (12M)
9115 (15M) **9117** (17M) **9120** (20M)
9130 (30 M) **9140** (40M) **9160** (60M)
9175 (75M)

All Hamsticks ..... each **$29.99**

901 Dipole Mount – for 2 Hamsticks .. **16.99**
IM-1 Inducti-Match **22.99**
TM-1 License Plate Mount – 3/8" x 24" **49.99**

YAESU

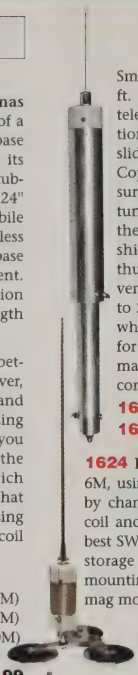
Choice of the World's top DX'ers™

ATAS-25 HF/VHF/UHF QRP Field Antenna – Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 and 430 MHz with band switching accomplished by changing supplied elements and adjusting coils. Matched SWR is less than 2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle (50W AM/FM); (144/430 MHz) 50W all modes; Requires camera-type tripod (not supplied); SO-239 base; Dim: 7.2 ft. high; 2.05 lbs **$249.99**

ATAS-120 HF/6/2/430 Motorized Tuning Antenna – Motor resonates the radiating element for lowest SWR using control voltages sent via the coaxial cable from Yaesu transceivers equipped for the ATAS system. Without duplexer, coaxial cable must be moved manually to correct jack when switching (VHF/UHF). Solid, sliding sections tune quickly. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W maximum; Less than 2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs **$299.99**

ATBK-100 VHF/UHF Antenna Base Kit – Not required, generally, unless operating the VHF or UHF bands with the ATAS-120 off-vehicle (on balcony railing, etc.). It restores the low-angle response for enhanced performance. Use with suggested base mount **$99.99**

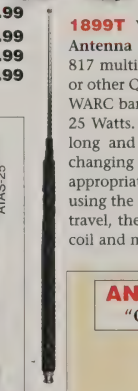
MFJ Manually Tuned Screwdriver Antenna



Small and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to an existing mount.

1661 – 40-2M, 12 in.; 1 lb **$129.99**
1664 – 80-6M, 15 in.; 1.25 lbs ... **$159.99**

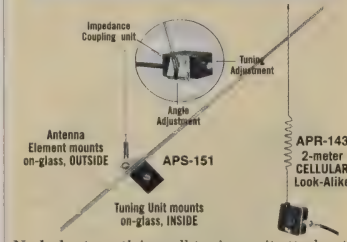
1624 HF Mini Bugcatcher – Operate 40 thru 6M, using up to 300W P.E.P. Very simple tuning by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Versatile mounting using a trunk lip, mirror, luggage or trimag mount (shown but not included)... **$79.99**



1899T Walkabout™ Multi-band Telescoping Antenna – Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil and measures only 8 in. collapsed **$69.99**

ANTENNA SPECIALISTS

"On-Glass" Mobile Antennas



No holes to cut! A small tuning unit attaches to glass inside the vehicle and couples capacitively through-the-glass to the stainless-steel black DURACOAT electrical 1/2-wave radiating element mounted on the outside. Both the **APS-151** and the **APR-143** cellular look-alike cover 144-174 MHz and are rated at 50W. Includes removable adhesive, 15 ft. of coaxial cable with PL-259.

APS151 – 2m, 33 in. radiator..... **$69.99**
APR143 – 2m, cellular look-alike, 23 in.. **$74.99**

MasterCard VISA DISCOVER NOVUS American Express Cards

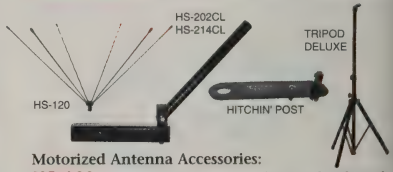
High Sierra AntennAs

PLATINUM PACK Continuous coverage Motor Driven HF Antenna Package – The HS-1800/PRO antenna provides continuous tuning from 3.5–30 MHz with a typical VSWR of less than 1.5:1 across the entire tuning range. Removing the supplied 6 ft. whip changes the range to 6.9–60 MHz. The "best antenna" for general mobile use because of its light weight, high performance and ability to cover the entire HF spectrum. Great for stealthy operation at antenna-restricted QTHs, ARES/RACES and more! The complete package, ready to install, includes the HS-1800/PRO, black powder coat finish with black stainless-steel whip, black universal mounting bracket, quick-disconnect manual control box, RF filter assembly and installation kit (20 ft. of control cable, wire ties, (2) PL-259's, 3 ft. of ground strap and sealing material).... **$545**

SIDEKICK Continuous Coverage, Motor Driven HF Antenna – Similar in design to the HS-1800/PRO but, only 15 in. tall and comes with 3 ft. whip. Covers 3.5-60 MHz with a 200W power rating. Includes manual control box, RF filter assembly and 3/8-24 threaded base to use with a mounting bracket.. **$395**

SIDEKICK I-BOX Continuous Coverage, Motor Driven HF Antenna – Same as Sidekick, but includes a semi-automatic I-box controller for Icom transceivers: IC-703, 706, 718, 736, 746, 756, 765 and IC-775 with no external power needed. To tune, just press the switch on the control box. The transceiver automatically transmits with low power. When the SWR drops down, release the switch. Typical tune-up is less than 10 seconds..... **$445**

I-BOX7000 I-BOX for Icom IC-7000 ..... **$110**



Motorized Antenna Accessories:

HS-120 Capacity Hat – Six stainless steel rods with aluminum tips inserted into a brass hub. Hat diameter is 1.5 ft. Installed on the HS-1800, it's roughly equal to adding 6 more ft. of whip section **$50**

HS-202CL Layback Adapter – Fits a 2 in. trailer hitch receiver. Removing a pin allows the vertical rod to lay back at a 45° angle for access to trunk, rear hatch or tail gate. Black powder coat..... **$130**

HS-214CL Layback Adapter – Same as 202CL, but fits 1.25 x 1.25 in. hitch receiver **$130**

STAKE HOLE MOUNT – Used to install the Sidekick and other antennas into the stake hole on a pickup truck (bed sidewall). It has an SO-239 with a 3/8-24 thread for the antenna connection..... **$27**

TRIPOD DELUXE – A strong aluminum adjustable 6 ft. tripod, the perfect antenna mount for the next trip or emergency. Includes a stainless angle 3/8-24 thread antenna mount with SO-239 connector, (8) 10 ft. long wire radials, and a nylon carrying bag with shoulder strap and draw string close..... **$130**

HITCHIN' POST – Mounts under a trailer hitch-ball. Made from thick stainless steel, black power coated. Standard 3/8-24 thread antenna mount, SO-239 connector and ground screw **$50**

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

OUTbacker System

The Outbacker – provides efficient, multiband mobile performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.

The Outpost Base Tripod Mount – a convenient way to use mobile antennas in Base or Portable applications. Greatly improved efficiency due to the 36 x 3 in. foldout ground feet that form a large capacitor with the earth. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds; no holes, no concrete required.

See Price Guide for listing of all OUTbackers and Accessories

ICOM

AH-703 HF/50 MHz Five-Band Antenna – Designed for convenient portable operation when using ICOM's IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and has a 20 Watt power capacity. The bands are covered by simply changing the supplied coils. The base terminates in a PL-259 connector which requires a PO-style mount. Dim: 4.6 ft. high; 12 oz.... **$199.99**

ORDER ON-LINE! USE YOUR CREDIT CARD

We accept I.M.P.A.C.® Government Credit Cards

ELK ANTENNAS

Log Periodics – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!

2M/440-L5 2M/440 MHz Log Periodic – Dual band operation without a duplexer, and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, black anodized aluminum elements and stainless hardware. **144-148 MHz**; 5 elements; 6.8dbd gain)/ **440-450 MHz**; 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lb . **$89.99**

440-L8 440 MHz Log Periodic – The latest model with increased gain and wide bandwidth. It's really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. **420-450 MHz**; 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz.. **$81.99**

220-L6 220 MHz Log periodic – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. 222-225 MHz; 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs..... **$81.99**

ELK BAG Canvas Carrying Bag – For convenient transporting of all ELK antennas ... **$24.99**

Arrow Antenna

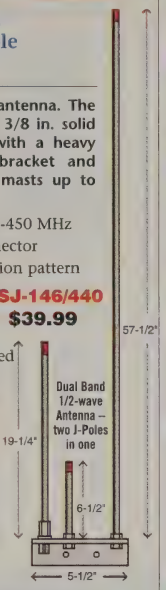
146/440 MHz Dual Band J-Pole Antenna

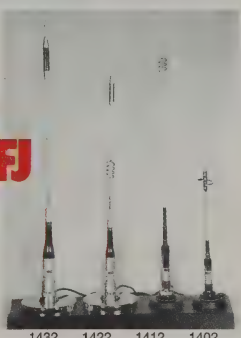
This a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

OSJ-146/440
$39.99

Mounts just about anywhere: in attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.





RUFFRIDER™ MOBILE ANTENNAS

(mounts not included)

Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate transmit power at the horizon for maximum distance.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

1402 Junior – 16.5 in., handles 100W. Unity gain on 2M, 3dB gain 440 MHz. No fold-over .. **$34.99**

1412 High Power – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz **$49.99**

1422 High Gain – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz **$49.99**

1432 Hyper Gain – 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W ... **$69.99**

1436 Triple Threat – 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W..... **$79.99**

SOLARCON ANTENNAS

A-99

A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers the resonant frequency.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in. **$79.99**

GPK-1 Groundplane Kit Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials **$59.99**

High Performance Yagis – Combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. A wide selection to fit your exact needs.

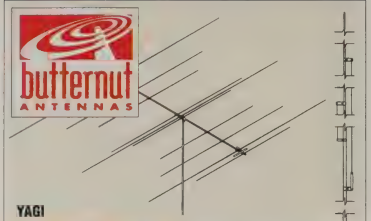
See Price Guide under M²

HO Loops – At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omni-directional **HO-Loop** to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna! Contacts up to 200 miles not uncommon. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW stacked.

6M-HO-LOOP
50-50.3 MHz, 29.5 in. square **$129.99**
2M-HO-LOOP
144-144.5 MHz 11.25 in. square **$56.99**
222-HO-LOOP
220-224 MHz, 7.75 in. square **$56.99**
432-HO-LOOP
430-436 MHz, 4.4 in. square **$56.99**

Comprehensive information on all M2 Antennas is available at:
www.m2inc.com

butternut ANTENNAS



YAGI

SKYHAWK 3X10 Triband Yagi – A design breakthrough. 3-band, 10-element, 20/15/10M, rust free.. **Drop Ship $999.99**

HF-2V 80/40 Vertical – Optimal output on 80 and 40m because the full length of 32 ft. is used on both bands **$269.99**

VERTICALS

Take advantage of all HF bands from 80 to 6m with high efficiency - without losses through traps. Both antennas (HF-6V, HF-9V) are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top. Additional accessories may be found in the Price Guide under Butternut.

HF-6VX 6-Band Vertical **$349.99**
HF-9VX 9-Band Vertical **$399.99**

CMI CHEST MOUNT ENGINEERING — CSA Certified

FULL BODY CLIMBING HARNESSES

TowerMate LE™ *(left)* Chest-high front D-ring for fixed climbing. Made of polyester, easy on/off. Two D-ring harnesses offer sliding D-ring at center of back, and chest-high front D-ring. Four D-ring harnesses have sliding D-ring at center of back, chest-high front D-ring and D-ring on each hip.

FP-56222 – Two D-ring, 2.7 lbs., S-L **$85.99**
FP-56224 – Two D-ring, 2.8 lbs., L-XL **85.99**
FP-56422 – Four D-ring, 3.0 lbs., S-L **99.99**
FP-56424 – Four D-ring, 3.2 lbs., L-XL **99.99**

EagleTower LE™ *(right)* Six D-ring tower saddle harnesses with padded seat and shoulder straps, and removable tool belt. Sliding D-ring at center of back, chest-high front D-ring, D-ring on each hip and each end of seat strap, black 1.75" nylon tongue buckle leg strap, red 1.75" polyester shoulder straps, two accessory rings attached to 5" padded backpad and seat-strap and carry-all bag.

FP-66611 – 5.1 lbs., small **$240.99**
FP-66612 – 5.2 lbs., medium **240.99**
FP-66613 – 5.3 lbs., large **240.99**
FP-66614 – 5.4 lbs., extra large **240.99**

We accept I.M.P.A.C.® Government Credit Cards

SHORTWAVE ACCESSORIES

MFJ

1024 Outdoor Active Antenna – Covers 50 kHz to 30 MHz. A separate RF amplifier module with a 54 in. telescopic whip antenna mounts anywhere outside and connects by the supplied 50 ft. coax to the control unit inside. The control contains a gain control and 20dB attenuator. You can select between two receivers and auxiliary antenna. Auxiliary input and output jacks. Uses 12VDC or 110VAC with an MFJ-1312D adapter ($15.99). Dim: Control 6"w x 2"h x 5"d; Module 3"h x 4"w x 4"d **$139.99**

1020C Indoor Active Antenna – Covers 300 kHz to 30 MHz in 5 bands with the 21 in. telescoping antenna. Improves indoor reception with your receiver and functions as a preselector when using an external antenna system. Improves sensitivity, selectivity and reduces noise. Uses 9V battery, 9-18VDC or 110V with an MFJ-1312D adapter ($15.99). Dim: 5"w x 2"h x 6"d **$89.99**

1040C All-Band Preselector – Improves reception while rejecting out-of-band signals and images on four bands: 1-3, 3-7, 7-18 and 18-54 MHz. Low-noise 20dB gain MOSFET amplifier with a gain control and 20dB attenuator handles a wide range of signal levels. Usable with transceivers up to 125W; a relay automatically bypasses the amplifier on transmit. Push buttons select 20dB attenuator, two antennas, two radios. Controls for delay, gain, band and tune. Unit is bypassed when off. Requires 9-18VDC or MFJ-1312D ($15.99) **$109.99**

AH-7000
Wideband Antenna
Discone design provides wide 25 to 1300 MHz coverage. Stainless steel, 5.5 ft. high and attaches to a standard mast (not supplied) with two supplied U-bolts. Comes with a preassembled 50 ft. cable with type- N connectors **$169.99**

THE SMILEY ANTENNA CO.

HAND TUNED ANTENNAS FOR HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a neoprene heat-shrink coating applied for strength and endurance. All have BNC connectors.

TS Thin Stick – 1/4-wave telescoping dual band antenna for 144 and 220 MHz bands..... **$16.99**

SS-II Super Stick II *(A)* – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **$19.99**

SS-II/COMBO Super Stick II Combo – Same as above, but includes a 2m stubby duck..... **$29.99**

5/8 SLD-2 5/8 Slim Duck *(B)* – 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long..... **$19.99**

5/8 SLD-2 COMBO 5/8 Slim Duck Combo – As above, but includes a 2m stubby duck..... **$29.99**

RD-2 Regular Duck *(C)* – For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are *impedance matched* for HTs..... **$15.99**

RDS-2 Stubby Duck *(D)* – Tuned, for 2m **$15.99**

SS-III Super Stick III – 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9 db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8¾" collapsed..... **$19.99**

SS-III/COMBO Super Stick III/Combo – As above, but includes a 220 MHz stubby duck..... **$29.99**

5/8 SLD-220 5/8 Slim Duck *(E)* – 220 MHz, 7db gain, flexible base loaded 9" antenna..... **$19.99**

5/8 SLD-220 COM 5/8 Slim Duck Combo Same as above, but includes a 220 MHz stubby duck antenna..... **$29.99**

RD-220 Reg. Duck *(F)* – 220 MHz, tuned **$15.99**

RDS-220 Stubby Duck *(G)* – As above... **$15.99**

SS-IV Super Stick IV *(H)* – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5¾" collapsed..... **$19.99**

SS-IV/COMBO Super Stick IV Combo – Same as above, plus has 440 MHz stubby duck..... **$29.99**

SL-440 Slimline *(I)* – 440 MHz, ¼-wv. flex **$15.99**

5/8 SLD-440 5/8 Slim Duck *(J)* – 440 MHz, 7db gain, flexible base loaded 5" antenna..... **$19.99**

5/8 SLD-440 COM 5/8 Slim Duck Combo As above, plus has a 440 MHz stubby..... **$29.99**

RDS-440 Stubby *(K)* – 440 MHz, tuned . **$15.99**

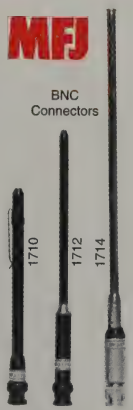
RDMD-440 Mini Duck *(L)* – As above.... **$15.99**

FLX 1/2 WAV-2M Flex-Coil *(M)* – 2M, 1/2-wave, 7-9dB gain, flexible base, 35" fully extended **$25.99**

270A *(N)* – Telescoping 2m/440 gain antenna. 1/4-wave (2m) 5/8-wave (440 MHz). The 270A is also available with SMA..... each **$19.99**

TAQ – 1/4-wave whip antenna, specify for 2M, 220 or 440 MHz ..... each **$10.99**

HT RANGE EXTENDERS



1714 Long Ranger™ 2M Halfwave BNC – This end-fed 1/2-wave is hard to beat. It outperforms a 5/8 wave because it does not need a ground plane. At 40 in. extended, it's shorter, lighter, has more gain and places less stress on the antenna connector. When collapsed to 10.5 in., it performs equal to a regular rubber duck.... **$16.99**

1712 Dual Bander™ 2M/440 MHz BNC – 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. Dim: 7.25 in. collapsed, 19 in. extended **$14.99**

1712S – Same as 1712 w/SMA connector **$14.99**

1710 Pocket Linear™ 3/8 Wave, 2M BNC – Carry in your pocket like a ballpoint pen. When using your rubber duck, on the fringe & noisy, put on the Pocket Linear, extend to 24.5 & carry on your QSO. Only 5.25 in. collapsed. Pocket clip..... **$9.99**

Midget Duck for or 2M/440 MHz

An amazing antenna for it size. Less than 1 in. tall, it's great for travelling and monitoring. It doesn't get in the way. Also receives great signals at 1200 MHz.
Order **1719** with BNC connector
or **1719S** with SMA..... each **$19.99**

Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable.
Order **310** with BNC connector or
310S w/SMA ..... each **$19.99**

More HT Antennas on Comet/Maldol, Diamond, Larsen and Premier pages

Miracle Antenna

MIRACLE WHIP DUCKER IL

Miracle Whip

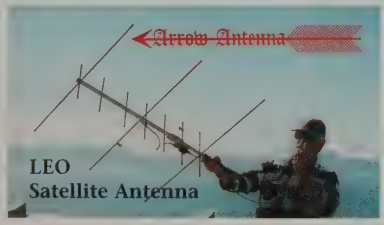
All Band, Rig Mounted Tunable Whip

For the FT-817, and other QRP (5W) or SWL rigs. The Miracle Whip is the only completely self-contained, all-band 57" telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The continuously variable auto transformer design operates effectively without any added counterpoises as the continuously variable nature permits finding a good match when there is no "standard" counterpoise attached. In effect, it uses whatever ground paths are available as a counterpoise ..... **MIA Miracle Whip $129.99**

Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of Receive gain, virtually noise free on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more - all on a rubber duck. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio. **MIA Ducker IL $129.99**



146/437-10 – KK5YY working VE6EGN on the AO27 satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. It's engineered to provide maximum gain and efficiency within a small size and weight. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip on the back end. The three VHF and seven UHF Gamma matched elements with separate BNC connectors are aluminum arrow shafts which are strong and lightweight, and plastic tipped for safety.. **$73.00**

146/437-10BP – Split boom model..... **$79.00**

10W DUPLEXER – Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector..... **$59.00**

DUPLEXER SMA – Same, SMA connector **$64.00**

CRANK IT UP!

MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.3 to 27 sq. ft. in 50mph winds, depending on the model.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
MA-40	40'/21'6"	2	242	3"sq./4.5"	3'x3'x4'6"	$1299.99
MA-550*	55'/22'1"	3	435	3"sq./6"	3.5'x3.5'x5'	$2019.99
MA-770*	71'/22'10"	4	645	3"sq./8"	5'x5'x5'6"	$3329.99
MA-850*	85'/23'6"	5	943	3"sq./10"	5'x5'x6'	$5159.99

*Also available as tower/heavy-duty motor drive (positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. 770 and 850 require MAB or MARB series base.

FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are lightweight, freestanding, and allow up to 50 sq. ft. of antenna in 50mph winds.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TMM-433SS	33'/11'4"	4	315	10"/18"	4'x4'x4'6"	$1759.99
TMM-433HD*	33'/11'4"	4	400	12.5"/21.5"	4'x4'x5'	$2119.99
TMM-541SS*	41'/12'	5	430	10"/21.625"	4'x4'x5'	$2299.99

*Will accept the MDP-750 motor drive, factory installed only.

FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TX-438	38'/21'6"	2	355	12.5"/15"	5'x5'x5'	$1649.99
TX-455	55'/21'6"	3	670	12.5"/18"	5'x5'x6'	$2269.99
TX-472*	72'/22'8"	4	1040	12.5"/21.625"	5'x5'x6'6"	$3729.99
TX-489MDPL**	89'/23'4"	5	1800	12.5"/25.625"	5'x5'x8'	$9729.99

*Also available as a tower/heavy-duty motor drive (with positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. **Comes with heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control.

FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
HDX-538	38'/21'6"	2	600	15"/18"	5'x5'x6'	$1959.99
HDX-555	55'/21'6"	3	870	15"/21.625"	5'x5'x6'6"	$3419.99
HDX-572MDPL*	72'/22'8"	4	1600	15"/25.625"	4'x4'x8'	$8919.99
HDX-589MDPL*	89'/23'4"	5	2440	15"/30.625"	5'x5'x8'	$11669.99
HDX-5106MDPL*	106'/24'8"	6	3805	15"/37.125"	5'x5'x9'	$24529.99

*Includes heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control (included with 589MDPL and 5106MDPL) or RMC-1000 remote control.

US TOWER CORPORATION

Headquarters
1099 W. Ropes Ave.
Woodlake, CA 93286
(559) 564-6000

Second Location
702 E. North St.
Lincoln, KS 67455
(785) 524-9966

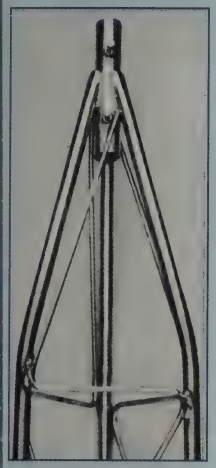
US Tower accessories listed in the price list.

All towers are drop shipped directly from the factory. Additional freight charges apply. Ask for details.

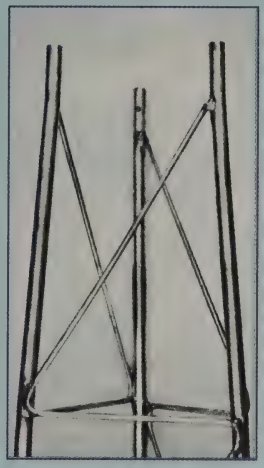
UNIVERSAL TOWERS

ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

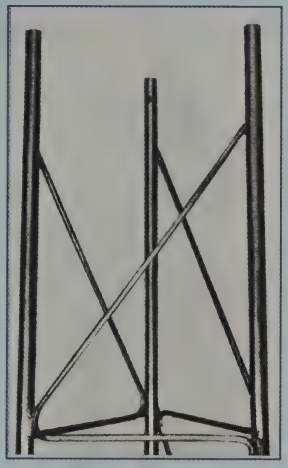
LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE • RUGGED STRENGTH
for AMATEUR RADIO • TV • FM • INDUSTRIAL • FIRE • POLICE • MARINE



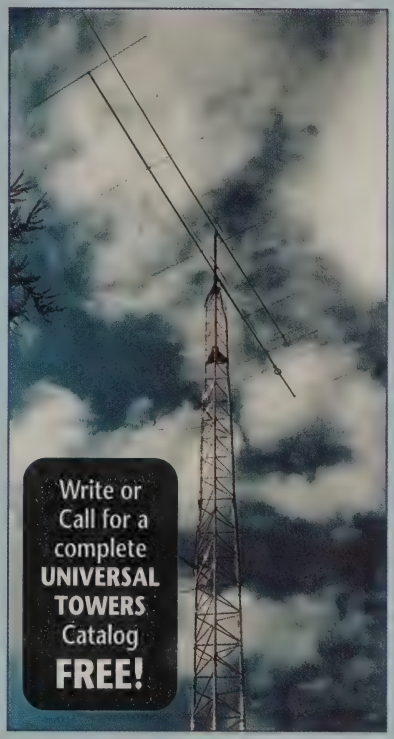
TOP SECTION

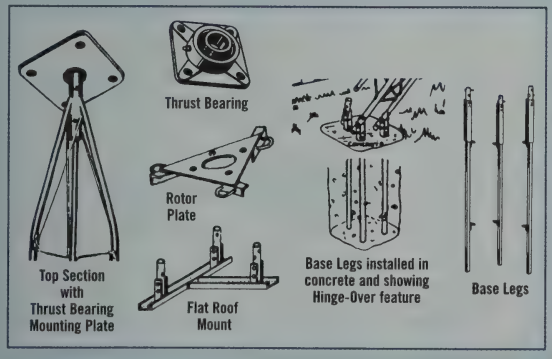


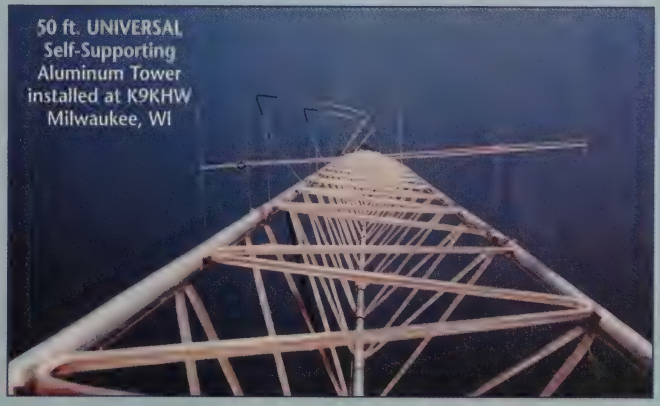
TAPER SECTION



STRAIGHT SECTION







SECTIONS

Universal Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available 11, 14, 18, 22, 26 or 30 inches wide.

CHOOSING THE PROPER TOWER

(1) Determine the projected surface area of the antenna that you intend to mount. This figure is often in the literature that comes with the antenna. Otherwise: standard TV antennas are about 2 sq. ft. in area; 6/10 meter beams and large TV antennas are 5 sq. ft.; 20/40 meter beams are 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays are 18 to 26 sq. ft. Also, when using a rotator add 1 sq. ft. plus 1 sq. ft. for the mast to whatever size antenna you intend to use.

(2) Decide on the tower height that you want. Universal Towers are made in 10 foot sections to give you many possible sizes and the ability to add sections later.

(3) Choose the tower model based on height and windload. The model number is merely the wind loading followed by the height. For example, if your antenna calculation resulted in a tower designed for 5 sq. ft. and you wish it to be 50 ft. high, the model you want is a **5-50**.

See the Price Guide for Configurations and Prices.

No Guys!

Self-Supporting at the Rated Load

BEFORE BUYING A TOWER
Consider the advantages of –

ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL offers 10' sections or complete towers ranging from 30 to 100' with a choice of wind load ratings and accessories.

All towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

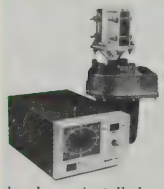
hy-gain ROTATORS

. . . the first choice of hams around the world!

The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. **$539.99**

Ham-IV Specifications	
Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	**7.5 square feet**
Turning Power (in lbs.)	800
Brake Power (in lbs.)	**5000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Dual race/98 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (tower)	**2800 ft/lbs.**



The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility, Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3" . **$1379.99**

HDR-300A Specifications	
Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	**N/A**
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	**7500**
Brake Construction	Solenoid operated locking
Bearing Assembly	**Bronze sleeve w/rollers**
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	**7** (Belden 8448 or 9405)
Shipping Weight (lbs.)	55
Effective Moment (tower)	**5000 ft/lbs.**

The TAILTWISTER SERIES II

is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **$619.99**
T-2XD with DCU-1 control **$979.99**

TAILTWISTER Specifications	
Wind Load cap.(inside tower)	20 square feet
Wind Load (w/ mast adapter)	**10 square feet**
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	**9000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Triple race/138 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	28
Effective Moment (tower)	**3400 ft/lbs.**

The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support **$289.99**

AR-40 Specifications	
Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	**1.5 square feet**
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	**450**
Brake Construction	Disc Brake
Ball Bearing Assembly	**Dual race/12 bearings**
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	**5** (Belden 8448 or 9405)
Shipping Weight (lbs.)	14
Effective Moment (tower)	**300 ft/lbs.**

THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in **$899.99**

HAM-V Specifications	
Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	**7.5 square feet**
Turning Power (in lbs.)	800
Brake Power (in lbs.)	**5000**
Brake Construction	Electric Wedge
Ball Bearing Assembly	**Dual race/96 bearings**
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (tower)	**2800 foot/lbs.**

The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearing race gives proven support. Diecast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support ... **$389.99**

CD-45-II Specifications	
Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	**5.0 square feet**
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	**800**
Brake Construction	Disc Brake
Ball Bearing Assembly	**Dual race/48 bearings**
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	**8** (Belden 8448 or 9405)
Shipping Weight (lbs.)	22
Effective Moment (tower)	**1200 ft/lbs.**

The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 control, compatible with many logging and contest programs..... **$649.99**

Rotator Accessories

MSHD Heavy duty lower mast support for Ham-IV/V, T-2X/XD..... **$99.99**
MSLD Lower mat support for CD-45-II, AR-40..... **$39.99**
TSP-1 Tower spacer plate..... **$34.99**

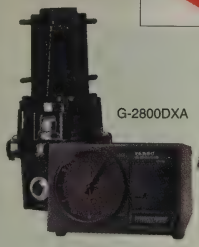
Belden Rotator Cable

8448 Standard duty, 8-wire
9405 Heavy duty, 8-wire
8484 Standard duty, 4-wire

See BELDEN in the Price Guide, page 5

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

YAESU



ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

G-2800DXA – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875–2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375"h; 13.2 lbs..... **$1139.99**

G-1000DXA – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5"dia. x 12.5"h; 7.7 lbs..... **$519.99**

G-450A – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable.
Dim: 7.5"dia. x 12.5"h; 7 lbs **$259.99**

G-5500 – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5–2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25–1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5"h; 20 lbs..... **$629.99**

G-550 – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5–2.5 in. mast size; 67 second 180° elevation; 1.25–1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5"h; 7.3 lbs..... **$299.99**

G-800DXA – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5–2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. 7.5"dia. x 12.5"h; 7.5 lbs..... **$429.99**

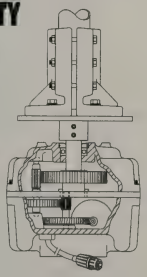
G-800SA – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7.5 lbs..... **$339.99**

ACCESSORIES

GC-038 – Mast clamp..... **$39.99**
GC-048 – Mast clamp for G-2800DXA..... **49.99**
GS-050 – 50mm thrust bearing (1.25"-2") **39.99**
GS-065 – 65mm thrust bearing (1.5"-2.5") **54.99**
GS-232B – Interface for DXA rotators.... **589.99**
C-1000 – GS-232B cable for SDX's/5500... **34.99**
GS-680U – Universal, self adjust. bearing **109.99**
SEP KIT Sparation kit for G-5500..... **29.99**

K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna

M² SUPER DUTY Rotator



OR-2800PDC Rotator
The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display.
Specifications: 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75–3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree travel resolution; 110/ 220V AC, 50/60Hz input; Requires two 4-wire runs of rotor cable. Dim: 15.75"h total, 9.75"h rotor; 42 lbs..... **$1598.99**

Channel Master

9521A Light Duty Rotator

Drive Unit: Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

Control Unit: Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy..... **$99.99**

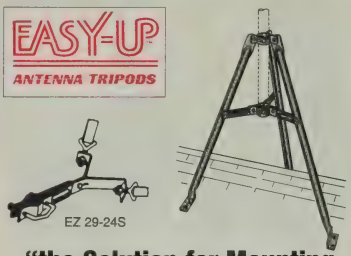
ECG®

U-105 Light-dutyRotator
Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows adirecton..... **$69.99**
Control Unit: 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator.
Dim: 7"w x 5.875"d x 2.375"h
Rotator Unit: 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

U-106 Light-duty Rotator – Similar to U-105 but with Presets and Infrared remote .. **$89.99**

TB-105 Thrust Bearing – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing. **$18.99**

EASY-UP ANTENNA TRIPODS

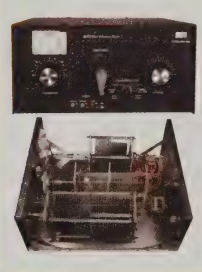


"the Solution for Mounting Smaller Antennas"

UPS SHIPPABLE

The use of a self-supporting antenna mount makes a neat and attractive installation. Easy-Ups are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Fast, one-person installation, the legs extend to any rafter spacing. Shipped completely assembled and includes a pitch pad kit and lag screws.

EZ 48-3ABX – 3 ft. high, 8.5 lbs..... **$39.99**
EZ 48-5ABX – 5 ft. high, 12 lbs..... **$59.99**
EZ 5-16 – 5 ft. 16ga. steel mast*..... **$12.99**
*Pick-up only
EZ 29-24S Heavy-duty Double-strap Chimney Mount – Includes two "Y" type mounts and 24' of stainless steel strap **$22.99**
EZ 30-24 – Deluxe Wall Mount w/3rd Leg . **$29.99**
EZ 31 – Heavy Duty Adjustable Eave Mount **$29.99**



MFJ Continuous Carrier™ Antenna Tuner

9982 – Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Loaded with features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak/average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels. The high-current, high-capacitance 1000 pF and 500 pF air variable capacitors give very high efficiency on 160/80M and extremely wide matching range on 10/12/15M at 2500 Watts. Dim: 13.75"w x 7"h x16"d; 15 lbs... **$649.99**

Stop tuning, Start talking!

SGC SMARTUNER® Automatic Antenna Couplers

SGC Smartuners™ Deliver greater impedance matching, more tuning steps and more antenna choices than any other antenna coupler on the market. Get frequency agility and precision tuning. They are independently intelligent, matching ANY HF transceiver and ANY antenna. Smartuners are microprocessor controlled; analyzing the conditions of your antenna and automatically adjusting for the best match. They also remember each match, cutting retuning time to under 10 milliseconds when changing frequencies. Smartuners are available for power levels from 1.5 to 500 Watts and frequency ranges from 1.8 to 60 MHz. They provide all purpose tuning ideal for base, mobile, portable, marine or aviation. Any budget, any installation.

54-14 SG-230 Original Smartuner™ – 1.8-30 MHz; 200W. 16.2"l x 12.2"w x 3.2"h; 8 lbs..... **$489.99**
54-15 SG-235 High Power – 1.8 to 30 MHz; 500W; 16.2"l x 12.2"w x 3.2"h; 8 lbs **$1169.99**
54-18 SG-237 General Purpose Smartuner™ – 1.8 to 60 MHz; 100W; 9"l x 7"w x 1.5"h; 2 lbs **$359.99**
54-22 SG-239 Budget Smartuner™ – 1.8 to 30 MHz; 200W; 7.5"l x 6"w x 1.9"h; 2 lbs **$179.99**

54-25 MAC-200 Master Antenna Controller Select the right antenna, for the right band, at the right time with the MAC-200. The Master Antenna Controller operates as your base station control center, eliminating complicated switching and tuning. With two built-in computers, the MAC-200 can select and tune up to 5 antennas automatically, quickly and accurately. Built-in memories fine tune to minimum SWR with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10 milliseconds. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well-known Smartuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system. 1.8-60 MHz; 1.5-200W; 168 memories; Pi configuration; 230mA average current; < 2 second random set time. Dim 8.5"l x 6.5"w x 3"h; 5 lbs..... **$249.99**

VECTRONICS
. . . fine amateur radio products

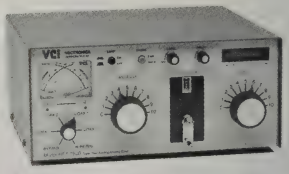
Compact Mobile Antenna Tuner

VC-300M Mobile Tuner – Compact, lightweight for mobile or base. Tunes mobile whips, verticals, dipoles, inverted Vs, beams – anything fed by coaxial cable. Covers 1.8–30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR.
Dim: 7.25"w x 3.5"h x 8.75"d; 2.5 lbs..... **$119.99**

Versatile 300 Watt Antenna Tuner

VC-300DLP – Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load.
Dim: 10.25"w x 9.5"d x 3.5"h; 3.4 lbs..... **$159.99**

VC-300D – Similar to VC-300DLP, but has an added deluxe 21-segment LCD peak power indicator located above the ant. switch ..... C/O **$139.99**



High Power Roller Inductor Tuner

HFT-1500 Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position coaxial antenna switch and 4:1 balun.
Dim: 12-1/2"w x 5-1/2"h x 12"d; 10 lbs **$429.99**

Palomar Engineers

PT-340
Tuner–Tuner

Eliminate QRM, overheated final tubes and devices by allowing adjustment for your station antenna tuner without transmitting. Installs permanently between rig and tuner. Just turn on, and listen to the noise output in a receiver, then adjust the station tuner controls for a dip in the noise (a null). Covers 1.7–30 MHz. Uses 9V battery. Dim: 6"w x 5"h x 3"d **$99.99**

MFJ ANTENNA TUNERS

902

922

989D

993B

991B/994B

All MFJ products come with a *No Matter What™* One-year Limited Warranty.
Not including kits, books or software.

MFJ...
the World Leader in Amateur Radio Accessories

902 Tiny Travel Tuner – Only 4.5"w x 2.25"h x 3"d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter **$89.99**

922 VHF/UHF Dual Band Antenna Tuner/Meter – Great for HTs, mobiles or amps up to 150W. Using the included tool, adjust your antenna system for a low SWR on VHF, 136–175 MHz and UHF, 420–460 MHz. Meter reads both SWR & power in 60/150W ranges. Dim: 4"w x 2"h x 1.25"d, carry it in your car, while camping, etc..... **$89.99**

945E Mobile Tuner – Covers 1.8–30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8"w x 2"h x 6"d. **$109.99**

941E Versa Tuner II – Covers 1.8–30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625"w x 2.875"h x 7"d **$119.99**

934 Antenna Tuner/Artificial Ground – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8–30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625"w x 3.5"h x 7"d..... **$189.99**

948 – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter **$129.99**

949E Deluxe Versa Tuner II – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in dummy load. Dim: 10.625"w x 2.875"h x 7"d..... **$159.99**

969 Deluxe Versa Tuner II – Covers 160–6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5"w x 3.875"h x 9.5"d..... **$189.99**

962D Versa Tuner III – Covers 1.8–30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.5"w x 3.9"h x 15"d..... **$259.99**

986 Differential-T Tuner™ – Covers 1.8–30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75"w x 4.5"h x 15"d **$309.99**

989D Versa Tuner V – Covers 1.8–30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 10.75"w x 4.5"h x 15"d. **$329.99**

993B IntelliTuner™ 300W Auto Tuner – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operaton. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10"w x 2.75"h x 9"d **$249.99**

991B IntelliTuner™ 150W Auto Tuner – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms..... **$209.99**

994B IntelliTuner™ 600W Auto Tuner – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed..... **$339.99**

974HB

931

974HB Balanced Line Tuner – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12–2000 ohms from 1.8–54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80–10 meters with sperate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5"w x 6"h x 8"d.... **$189.99**

974B Balanced Line Antenna Tuner – Same as 974HB but 3.5–54 MHz (no 1.8 MHz) **$169.99**

931 Artificial Ground – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5"w x 3.5"h x 7"d. **Not for coax fed antennas** ... **$99.99**

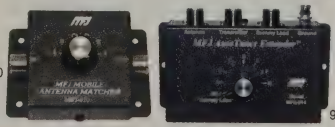
903
906

906 6 Meter Antenna Tuner/Meter – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8"w x 2.5"h x 3"d **$89.99**

903 6 Meter Antenna Tuner – Similar to 906. Less meter and bypass switch **$59.99**

921 144/220 MHz Antenna Tuner/Meter – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8"w x 2.5"h x 3"d **$79.99**

924 440 MHz Antenna Tuner/Meter – Similar to 921 but 440 MHz band only..... **$79.99**


910
914

910 Mobile Antenna Matcher – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5"w x 2.5"h x 1.5"d ... **$24.99**

914 Auto Tuner Extender – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position **$69.99**

Automatic Antenna Tuners

Z-11Pro Automatic Antenna Tuner

The Return of a Legend!

The original portable Z-11 was one of LDG's most popular tuners, accompanying adventurous hams to their backyards or to the ends of the earth. Now meet the Z-11Pro, everything you always wanted in a small, portable tuner designed from the ground up for battery operation.

Only 5 x 7.7 x 1.5 in., and weighing only 1.5 pounds, it handles 0.1 to 125 watts, making it ideal for both QRP and standard 100 watt transceivers from 160 - 6 meters.

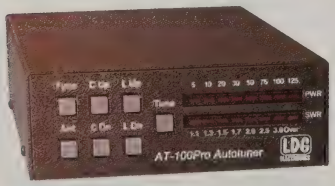
With 8,000 memories in LDG's exclusive "3-D Memory" array, the Z-11Pro uses LDG's state-of-the-art processor-controlled Switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line **$179.99**

AT-200Pro Automatic Antenna Tuner

The first auto tuner specifically designed for today's high-powered transceivers.

The AT-200Pro features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz, and **100W on 6M.**

Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. Dim: 8.5"w x 2.0"h x 6"d; 6 lbs **$229.99**



AT-100Pro Automatic Antenna Tuner

This desktop tuner covers all frequencies from 1.8 to 54 MHz (**including 6 meters**), and will automatically match your antenna in no time. It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100Pro requires just 1W for full operation, but will handle up to 125W. The AT-100Pro includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as you use them.

Dim: 7.5"w x 5.5"h x 2.0"d; 1.5 lbs **$199.99**

LDG ELECTRONICS

The Hottest Radio in the Industry! Now with it's Own Autotuner!

The **AT-7000** is the ideal tuner for the IC-7000 and other ICOM Radios. It covers all frequencies from 1.8-54 MHz **(including 6 meters)**, and will automatically match your antenna in a flash.

Requires just 0.1W for operation, but will handle up to 125W (100W on 6 meters), making it suitable for everything from QRP (IC-703PLUS) to a typical 100W ICOM transceiver.

Ready to go right out of the box! No extra cable to buy.

Tune with the AT-7000 or use your radio. Includes over 2,000 memories, uses latching relays, tuning range is 4-800 ohms, powered by your radio. Includes ICOM interface cable. Note: The IC-7000 shown on top of the AT-7000 is not included. Dim: 16.5"w x 1.5"h x 6.5"d; 1.5 lbs..... **$169.99**

AT-200PC Automatic Antenna Tuner

The First automatic Tuner Designed Specifically for PC Rig Control

Now you can have a state-of-the art high performance automatic tuner and still run your whole station right from your keyboard and mouse!

LDG's AT-200PC is a special version of he popular AT-200Pro, designed for PC control. All of its functions are controlled entirely by a program running on your PC. The tuner itself can be installed out of the way, on the floor or even in another room, interfacing with your PC via serial or USB cable. Dim: 8.5"w x 2.0"h x 6"d; 6 lbs..... **$239.99**

AT-1000 Automatic Antenna Tuner

An Autotuner for use with your amplifier!

No more knob spinning or inductor rolling. Tunes your antenna in only 1 to 8 seconds when you QSY either in the same band or to a different band! Easy installation and use make this the choice for any Amateur Radio Operator with an amplifier.

Power rating HF (1.8 to 30 MHz): 1000W Single Side Band, 750W CW, 500W Digital (RTTY, Packet, etc.) **including 6 meters** (100W).

Just about any antenna can be tuned with the AT-1000. However, the antenna must be between 6 to 800 ohms (approximately 10:1 SWR) in order to bring the SWR down to 1.5:1.

Dim: 13"w x 3"h x 9"d; 6 lbs..... **$549.99**

Z-100 Automatic Antenna Tuner

The definitive low cost Automatic Antenna Tuner!

Designed from the ground up to provide the 100W power handling you asked for in a small, lightweight package, perfect for portable as well as sitting on your desk in the shack!

The Z-100 will tune with 0.1 to 125W (50W on 6 meters), making it an excellent choice for almost any radio or operating style. Backpackers and QRP operators will appreciate the latching relays. Power can be removed from the tuner once you have tuned. Additionally, when the tuner is not tuning, it draws nearly zero amps.

Additionally, the Z-100 features 200 fast memories which will decrease tuning time up to 95%!

Dim: 5.5"w x 1.5"h x 5.25"d; 14 oz..... **$149.99**

For more Information and Manual Downloads go to LDG's web site...
www.ldgelectronics.com

LDG ELECTRONICS **2 YEAR WARRANTY**

No Questions Asked! Every LDG Product comes with our industry leading 2-Year Warranty on the performance of your product. Just contact us to let us know your problem and we will repair or replace your product – **NO QUESTIONS ASKED!**

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

MULTI-DC 12VDC Distribution Box
Your Power Problems – Solved!

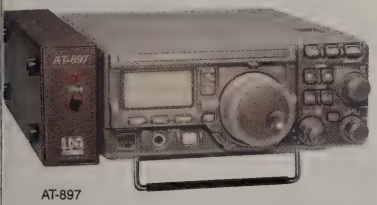
The provided cables have the right coaxial DC power plug to connect to all your LDG products. The Multi-DC can source up to 3 amps; each of the six outputs can provide up to 0.5 amps to your LDG accessories. The Multi-DC comes with one input cable, and six output cables, each 3 ft. long. The six outputs are organized in three groups of two. Each pair in internally regulated to 12VDC, thermal protected and short-limited; a short circuit just shuts down the regulator and turns off that output. With the Multi-DC you can easily and safely power your LDG tuners and accessories.
Dim: 6.5"w x 2.5"h x 2.5"d; 1 lbs..... **$49.99**

TW-1 The "Talking Watt Meter"

The TW-1 Talking Wattmeter provides a spoken indication of power and SWR using a digitally recorded voice. It is ideal for the vision-impaired, for those of us in the "bi-focal set" or just for those times when you need to be looking somewhere else.

At the press of a button, the TW-1 speaks the Forward Power, Reverse Power or SWR. Three languages are available: English, Spanish & German. It includes its own internal speaker; no external audio hookups needed. Range: 1.8-54 MHz; 2KW PEP.

Also available is the **TW-2** UHF/VHF version. Range: 6M, 2M and 440 MHz ham bands; 250W PEP. Dim: 4.5"w x 3"h x 5"d; 1 lb ... each **$149.99**



AT-897

Baluns and Cables

LDG ELECTRONICS

RBA Baluns – Allows you to connect long wires and antennas fed with ladder line to your LDG tuner. Two versions are available: The RBA-4:1 provides a 4:1 impedance transformation while the RBA-1:1 has a 52 ohm input and output. Rated at 200W. Dim: 2.5"w x 5"h x 1.25"d.

RBA-1:1 Remote 1:1 Balun..... **$30.99**
RBA-4:1 Remote 4:1 Balun..... **30.99**
Y-ACC FT-897, FT-857 Interface cable... **12.99**
Icom-IC1 Icom 10 ft. Interface cable ... **20.99**
Icom-IC2 Icom 8 in. Interface cable..... **8.99**

FT-METER Multi-Function Meter for Yaesu FT-857 & FT-897
Your Eye Strain Problems – Solved!

Yaesu's popular FT-857 and FT-897 transceivers are wonders of compact efficiency. These do-anything, go-anywhere transceivers were science fiction just a few years ago, but hams today are using them in shacks, mobiles and on expeditions from the back yard to around the world.

The FT-Meter presents a lush, highly readable 2.5 in. meter face with calibrated scales for signal strength and discriminator reading on receive, and power output, SWR, modulation, ALC action and supply voltage on transmit. Each function is selectable from the radio's menu. Easily visible from anywhere on your desk or dash, the FT-Meter is illuminated by any external 12 VDC source.

The FT-Meter is fully assembled and ready to plug into the radio and you're in the picture like never before. Dim: 3.5"w x 3"h x 2"d; 0.5 lbs..... **$49.99**

LDG ELECTRONICS **2 YEAR WARRANTY**

AT-897 Automatic Antenna Tuner

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897 mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897 takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier.
Dim: 1.5"w x 3.25"h x 11.5"d; 2 lbs..... **$199.99**

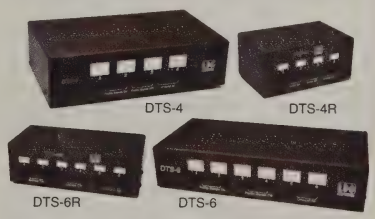
RCA-14 Transceiver Breakout Box
Your Cable Problems – Solved!

The RCA-14 is a breakout box for the accessory jacks on most popular transceivers. It comes with cables with the right DIN plugs, and all the outputs are standard RCA jacks. You simply plug the RCA-14 into you radio's accessory jacks, and all your ports are right there at your fingertips; just plug and play, one function or all or them, makes no difference. And, you can change things around as often as you like; it's as simple as swapping out an RCA plug.

The RCA-14 comes with a DIN-13 cable, a mini DIN-6 and a mini DIN-8. The DIN-13 cable breaks out the functions to RCA jacks 1-13, while the mini DIN-8 goes to to RCA 1-6, and the mini DIN-8 goes to RCA 7-14. You can use the DIN-13 or the mini DIN-6 and/or 8, depending on your radio.

The RCA-14 is compatible with: ICOM 703, 706, 718, 746, 756, 7000 and 7800; YAESU 817, 857, 897 and 840; KENWOOD 480, 570, 2000; TEN-TEC Orion. Includes 5 interface cables for the most popular radios. Dim: 6.5"w x 3"d x 3"d;1 lb..... **$59.99**

The DTS-Series Antenna Switches



Tired of that tangled mess of coax and pigtails in your shack? Always worrying about whether you set the ground switch on your antenna before you left your shack? LDG's new DTS Series antenna switches are for you. Instantly switch your rig between 4 to 6 antennas with the press of a button. Safety features prevent "hot switching". Auto-grounding when you shut your rig down. Purchase the additional remote control and put the DTS series switch anywhere indoors and operate it from your desk. They cover 1.8-54 MHz and handle up to 1500W of RF power on HF (250W on 6M), and can be used with any coax-fed antenna. Requires 11-15VDC.

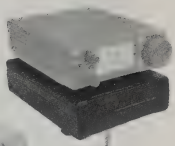
DTS-4 4-position,
Dim: 4.5"w x 3"h x 5"d; 1 lb..... **$79.99**
DTS-4R Remote control for DTS-4..... **$39.99**
DTS-6 6-position,
Dim: 9.5"w x 2"h x 4.5"d; 1 lb **$99.99**
DTS-6R Remote Control for DTS-6..... **$49.99**

AES Amateur Electronic Supply
Your LDG Headquarters

MasterCard VISA DISCOVER NOVUS Cards

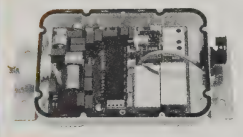
We accept I.M.P.A.C.® Government Credit Cards

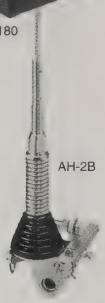
ICOM Antenna Tuners



AT-180

AH-4





AH-2B

AH-4 Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers – just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7"w x 2.7"h x 9"d **$259.99**

AT-180 Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC. Dim: 6.5"w x 2.3"h x 8.9"d; 5.3 lbs **$369.99**

AH-2B Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long..... **$349.99**

AMERITRON

True Legal Limit Antenna Tuner

ATR-30 True Legal Limit™ Antenna Tuner Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160M. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/ Wattmeter. Includes: 3-core choke balun; 6-position antenna switch; 6:1 vernier reduction drives, crank with turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25"w x 5.6"h x 17.5"d..... **$559.99**

ATR-20 Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters. Dim: 13.5"w x 5.5"h x 13.5"d..... **$429.99**

PALSTAR

"BUILT LIKE A TANK" - K0CWO

AT-AUTO Automatic Antenna Tuner

- 50-1500 W single tone continuous
- wide Z range on 160m - 10m & 10m - 15m
- tuning time 1-30 seconds
- Serial port for field upgradeable software
- custom large plate capacitor at 5kV
- Peak and Peak Hold cross needle metering

$1195.99

AT-5K 3500W Antenna Tuner

- 160m - 15m limited Z range on 10m
- balanced output w. 5 kW balun
- 600pf variable capacitor at 6 kV
- 10 Amp 7 kV ceramic roller inductor
- silver plated wheel shaft & hardware
- Peak and Peak Hold cross needle metering

$1195.99

AT-1500DT 1500W PEP Antenna Tuner

- wide Z range on 160m - 20m & 10m to 15m
- ferrite 4:1 balun
- differential capacitor tuning (385pf@5 kV)
- Palstar designed ceramic body roller inductor
- silver plated wheel shaft & hardware
- Peak and Peak Hold cross needle metering

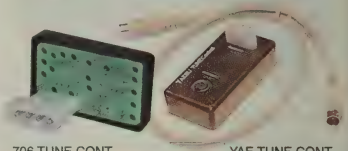
$479.99

AT-1KM 1200W PEP Antenna Tuner

- wide Z range on 160m - 20m & 10m to 15m
- ferrite 4:1 balun
- 430pf differential capacitor at 3.5 kV
- 7 Amp 5 kV ceramic roller inductor
- silver plated wheel shaft & hardware
- cross needle metering

$379.99

The Better RF Company



706 TUNE CONT YAE TUNE CONT

706 TUNE CONT Tune up Control for IC-706/718 – Plugs into Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No need to switch to AM or RTTY or hold the PTT. Works 160-6M, except not 6M with original IC-706..... **$32.99**

YAE TUNE CONT Tune up Control for Yaesu FT-100, FT-857 and FT-897 – Makes the radio's TUNE button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., in any mode. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers..... **$44.99**

W4RT Electronics

MOTORIZED ANTENNA CONTROLLERS

Antenna BOSS – For **Yaesu** Radios. Makes essentially any motorized antenna "look like" an ATAS-100/120 to the FT-100/D, 847, 857, & 897 radios, allowing use of the radio's TUNE button for automatic tuning (6 to 40 meters). Works with 6-12 VDC motors drawing <750 mA, no special sensors in antenna required, no programming or computer required. BOSS works to full legal limit as well as with antennas having a shunt coil. The radio powers both the antenna motor and the BOSS..... **$149.99**

Antenna BOSS II – For **Icom, Yaesu, & Kenwood** Radios. Antenna BOSS II allows essentially any 6 to 160 meter motorized antenna to interface with Icom radios that work with the AH-4 tuner such as the IC-706, MKII, MKIIG, and 7000. Works with 12 VDC motors drawing <750 mA running, no special sensors in antenna required, and no programming or computer required. Works with radio's TUNE button. The BOSS II measures frequency and SWR. Advanced algorithms provide excellent auto-resonating (tuning) and mitigate motor overshoot by using dynamic braking and reducing motor speed during final antenna adjustment. Includes cable for connection to the IC-706 series radios..... **$149.99**

To use the **BOSS II** with **KENWOOD** radios such as the TS-50 and TS-480, requires the LDG K-OTT and the KB-2 cable. Tuning is activated by pressing the radio's TUNE button (tuning on 6 meters if radio is external-tuner capable on this band).

LDG **K-OTT** C/O **$59.99** / W4R **KB-2 $10.99**

To use the **BOSS II** with **YAESU** radios; FT-100/D, 817, 857 & 897, requires the W4RT-modified LDG Y-OTT (YB-OTT) and the YB-2 cable. Tuning is activated by pressing the supplied TUNE button.

W4R **YB-OTT $59.99** / W4R **YB-2 $10.99**

MFJ SWR Analyzers

Make sure your antenna giving you top performance by using a MFJ SWR Analyzer. The 259B and 269 are complete Ham radio test stations, including: a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance and Inductance Meter & more.

You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make readings and adjustments. MFJ analyzers are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. Take one reading to get a complete picture of your antenna, and make tuning adjustments on the spot.

Operation is simple, just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters.

When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.

Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

The 259B and 269 operate on 110V with the 1312D adapter ($15.99) or on 10 AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries, not included. For rechargeables, there is a built-in charger circuit that requires external 12VDC or MFJ-1312D. All metal cabinet. Dim: 6-3/4"h x 4"w x 2"d. The 259B has an SO-239 connector, the 269 has a type-N and is supplied with a type-N to S0-239 adapter.

259B SWR Analyzer – Covers 1.8-170 MHz **$259.99**

269 SWR Analyzer – Looks nearly identical to, and has all the features of the 259B plus it covers 1.8-170 and 415-470 MHz. Built-in CoaxCalculator™ calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Read Complex Impedance as series equivalent resistance and reactance (Rs+jXs) or as magnitude (Z) and phase (degrees). Also reads parallel equivalent resistance and reactance (Rp+jXp). Measure SWR and loss of coax with any characteristic impedance from 10 to over 600, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450 ohms. On the 415 to 470 MHz Range you can read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency. Has LCD logarithmic SWR bargraph and SWR meter for quick tuning **$339.99**

259B/269 Accessories

29C Carrying Case – Tote your 259B anywhere with this custom carrying case. Wear it around your waist, over your shoulder, or clip it onto the tower while you work. Has back pocket for carrying dip coils and coax adapters. Special foam filled fabric cushions protects from wear **$24.99**

39C Carrying Case – Fits the 269 ..... **$24.99**

66 Dip Meter Adapter – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz ... **$24.99**

98 Accessory Pack – Includes 39C case, 66 dip adapter and 1312D AC adapter **$60.99**

99 Accessory Pack – Includes 29C case, 66 dip coils and 1312D AC adapter **$60.99**

99B Accessory Pack – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and AC adapter **$88.99**

99C Accessory Pack – Includes 10 "AA" NiMH batteries and 1312D AC adapter **$40.99**

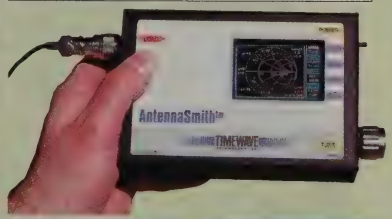
731 Tunable Measurement Filter – Use with 259B or 269 for measurements in the 1.8-30 MHz range while in the presence of strong RF fields from nearby broadcast stations or other RF sources .. **$89.99**

TIMEWAVE TZ-900

TIMEWAVE TECHNOLOGY INC.

AntennaSmith™

Antenna Impedance Analyzer



- **Full Color TFT LCD Graphic Display**
- **Covers 0.2 to 55 MHz**
- **SWR • Impedance (Z) • Reactance (r+jx)**
- **Reflection coefficient (ρ,ϑ) • Smith Chart**

Day/Night Always-Visible Display
The transreflective TFT LCD color display is brilliantly visible in direct sunlight.

Full Graphics - Rapid update
Data graph updates every two seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system. Instantly see the effect of a change!

Adjustable Frequency Cursor/Generator
Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph. The Direct Digital Synthesizer makes a great RF signal generator in the Synthesizer mode. Easily calibrate to WWV with 1 Hz frequency resolution.

Rugged and Portable
Extruded aluminum case, (4) AA NiMH batteries for hours of field operation. A 12 VDC power supply/charger included.

TZ-900S with SO-239 connector... **$1299.99** • **TZ-900N** with type-N connector ... **$1299.99**

Palstar, Inc Antenna Analyzer

ZM-30 – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1 to 30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for field upgradable software. Battery operation allows you to take it to the antenna. Durable, powder coated front panel. Dim: 3"w x 4"h x 2"d **$369.99**

MFJ SWR POWER METERS

864 – Covers 1.8–60 MHz, 144 MHz and 440 MHz bands. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Ranges: 30/300W forward and 6/60W reflected. Requires 12VDC for meter illumination light. Dim: 7.25"w x 2.5"h x 2.25"d..... **$89.99**

862 – Similar to the 864, but for 144, 220 & 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75"w x 2.5"h x 2.25"d..... **$59.99**

860 – Similar to the 864, but covers 1.8 to 60 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 4.5"w x 2.25"h x 3"d..... **$49.99**

815C – Simultaneously reads true peak or average power and SWR simultaneously on a large illuminated three-inch Cross-Needle meter. Covers 1.8–30 MHz with 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12VDC. Dim: 6"w x 3.5"h x 4.5"d..... **$89.99**

817C – Similar to 815C but for 144/220/440 MHz with 300/30W forward and 60/6W reflected power ranges. Dim: 6"w x 3.5"h x 4.5"d **$99.99**

812B – Indicates forward and reflected power on 2M/220 MHz and SWR from 144–220 MHz, plus field-strength from 1–220 MHz. Power ranges: 30/300W. Dim: 4.5"w x 2.25"h x 3"d **$39.99**

816 Toroidal Meter – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5"w x 2.25"h x 3"d **$39.99**

844 VHF/UHF SWR/Power Meter – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/POWER in 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75"w x 3"h x 1.25"d... **$79.99**

868 SWR Wattmeter Large, 6-1/2 inches diagonally across the meter scale. Easy-to-read with big high contrast numbers. Covers 1.8-30 MHz indicating Peak or Average Forward and Reflected power and VSWR in 20/200/2000W ranges. Power saver circuit. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter ($15.99). Dim: 7"w x 5.5"h x 5"d..... **$139.99**

GrandMaster™ SWR/Wattmeters

Four models with different frequency and power ranges. Easy-to-read 3.25"w x 1.25"h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5"w x 3.125"h x 4.25"d.

870 (HF range) – 1.6 to 60 MHz.
Power ranges: 30/300/3000W + VSWR.... **$129.99**

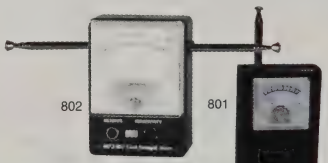
872 (HF/VHF range) – 1.8 to 200 MHz
Power ranges: 5/20/200W + VSWR **$94.99**

873 (VHF/UHF range) – 125 to 525 MHz.
Power ranges: 5/20/200W + VSWR..... **$114.99**

874 (HF/VHF/UHF range) – 1.8 to 525 MHz.
Power ranges: 5/20/200W +VSWR..... **$169.99**

267 Precision SWR/Wattmeter with Dry Dummy Load

Usable 1.8 to 60 MHz. Large 3 in. Cross-Needle meter shows peak and average forward and reflected power and SWR. Power: 300/3000W forward, 60/600W reflected; SWR 1:1 to 8:1; Built-in 100W 50 ohm dummy load; Load to antenna switch; Uses 12VDC for the meter lamp or 120VAC with 1312D, or 9V battery. Dim: 4"w x 3.125"h x 10"d..... **$159.99**



FIELD STRENGTH METERS

801 Super Compact Field Strength Meter – You can read relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Its compact size fits in the palm of your hand. Telescopic whip included. Dim: 2.375"w x 3.625"h x 1"d **$24.99**

802 Bipolar Field Strength Meter – Dual whips are included. Dim: 2.4"w x 4"h x 1.5"d **$44.99**

ALAN BROADBAND
ZAP CHECKER

Broadband Field Strength Bug Detector – A wideband 10 MHz to 4.5 GHz receiver that indicates the presence of RF energy. Detects 2.4 GHz bugs at 40 feet. Analog meter and LED display for viewing at a distance and at night. Silent vibrator mode for in-pocket detection and hands-free operation. Use for bug detection, wireless, aircraft maintenance, health/environmental and ham radio. Detects and measures cell phone radiation, microwave ovens, computer wireless devices, microwave data transmissions, covert surveillance cameras and bugs, radiating PCs and electronic games, and background radiation levels. Dim: 2.1"w x 1.25"l x 5"h; 5 oz. **ALA ZAP CHECKER $89.99**

185 – Same as the ZAP CHECKER but is more sensitive than the original and covers approximately 3 MHz to 5.8 GHz. Also features an analog/digital switch..... **$159.99**

MISC METERS & COUNTERS

224 2M FM Signal Analyzer™ Covers 143.5-148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feedline loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4"w x 2.5"d x 6.75"h . **$159.99**

852 Power Line Noise Meter A sensitive AM receiver fixed tuned in the 135 MHz range coupled with a directional telescopic dipole antenna locates AC line and other noise fast. Antenna is balun isolated to give a clearly defined null for pin-pointing interference sources. Wide range level meter to view or plug in headphones to hear the noise, or use a tape recorder for later playback. Uses 9V battery. Dim: 2.8"w x 4"h x 1.5"d..... **$109.99**

805 Pocket-Sized RFI Detector Track and eliminate RFI caused by radiating cables and wires. Simply clamp the top mounted current transformer over a suspected cable or wire (up to 1/4 inch diameter) to detect RFI causing common-mode currents. Useable from VLF to VHF. Uses 9V battery. Dim: 2.25"h x 4.75"h x 1"d..... **$89.99**

854 RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5"w x 5.5"h x 1.5"d; 11 oz.... **$109.99**

886 Pocket Frequency Counter Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1-10 Hz resolution in the 300 MHz range and 10-1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75"w x 3.25"d x 1.25"d..... **$119.99**

888 Deluxe Frequency Counter Measures frequency and period. Covers 10 Hz to 3 GHz with a 10-digit LCD and an ultra-sensitive synchronous detector with 16-section RF signal strength bargraph. A high-speed 300 MHz direct counter with 0.1 Hz resolution and four selectable gate speeds. Hi-Z low range; Auto-hold; LED backlight; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd battery pack. Complete with battery pack, charger, and telescopic whip. Dim: 2.75"w x 4.25"h x 1.25"d; 9 oz **$189.99**

Coaxial Dynamics RF Directional Wattmeters

Elements also work in BIRD meters!

81000-A RF Directional Wattmeter – Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order) **$275.99**

83000-A RF Peak Reading Wattmeter – Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery is required and supplied for peak reading mode **$393.99**

See Price Guide for list of Plug-in Elements

CN-801HP/V CN-101/103M/103N

Cross Needle SWR/Power Meters

CN-101 – Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6"w x 3"h x 3.9"d; 1.5 lbs **$99.99**

CN-103M – Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP) **$99.99**

CN-103N – CN-103M with N connectors **$109.99**

Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6"w x 4"h x 4.5"d; 2.2 lbs

CN-801HP – 1.8-200 MHz, 20/200/2kW **$159.99**

CN-801V – 140-525 MHz, 20/200W **$154.99**

CN-801SII – 900-2500 MHz, 2/20W/200mW, type-N.... **$269.99**

DIAMOND ANTENNA

SWR/Power Meters

(left) Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6"w x 2.5"h x 4"d; 2 lbs.

SX-100 – 1.6-60 MHz, 30/300/3kW PEP **$134.99**

SX-200 – 1.8-200 MHz, 5/20/200W PEP . **$94.99**

SX-400 – 140-525 MHz, 5/20/200W PEP **$114.99**

SX-600 – Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges..... **$169.99**

SX-1000 – Dual band, 1.8-160 MHz and 430-1300 MHz, 5/20/200W PEP ranges..... **$214.99**

Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3"w x 3.4"h x 3.7"d; 9 oz.

SX-20C – 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **$89.99**

SX-40C – 144-470 MHz (220 MHz with correction factor); 15/150W (3W minimum power)... **$79.99**

Low Cost Meters

SWR-1 SWR/Field Strength – Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1–3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 6"h x 2"w x 2.9"d; 14 oz..... **$29.99**

SWR-3 SWR Meter – Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1–3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5"h x 3.5"w x 3"d; 6 oz.. **$14.99**

VECTRONICS SWR/POWER METERS

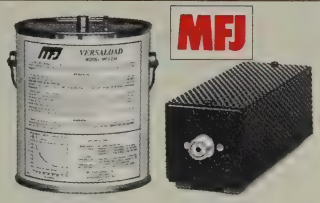
PM-30HF – Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors.
Dim: 5.3"w x 3.5"h x 5.75"d; 1.2 lbs..... **$79.99**

PM-30UV – Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors..... **$89.99**

DUMMY LOADS

Simulates an accurate 50 ohm antenna and allows testing or tuning a transmitter without radiating a signal on the air.

A must for every hamshack!



250/250X 260C

250 Versaload – A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3"h x 6.6" diameter. Supplied with high-quality oil..... **$69.99**

250X – Same as above, but requires oil.. **$49.99**

Dry Loads – A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

260C HF/VHF Range – Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5"w x 2.5"h x 7"d.... **$39.99**

260CN – Has type "N" connector **$49.99**

264 UHF, Wide Range – Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3"w x 3"h x 9"d..... **$74.99**

264N – Has type "N" connector **$84.99**

267 SWR/Wattmeter with Dry Dummy Load – A built-in 100W 50 ohm dummy load with a 3 inch cross-needle meter shows peak and average forward and reflected power and SWR. Usable 1.8–60 MHz. Power: 300/3000W forward, 60/600W reflected Usable 1.8 to 60 MHz. Dim: 4"w x 3.125"h x 10"d..... **$159.99**

AMERITRON

ADL-1500 Oil Cooled Dummy Load – Similar to MFJ-250, 1500W up to 30MHz..... **$74.99**

ADL-2500 Dry Dummy Load – Similar to Vectronics DL-2500 below, 2500W up to 30 MHz, fan cooled..... **$189.99**

VECTRONICS

DL-300M Dry Dummy Load – Power rated at 300W for 15 sec., to 100W for 40 sec. VSWR <1.3:1 at 150 MHz. Dim: 5"h x 2"d x 2.9"h; 8 oz. **$49.99**

DL-650M Dry Dummy Load – Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.3:1 at 500 MHz .. **$79.99**

DL-2500 High-Power Dry Load – A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes **$199.99**

See Belden in the Price Guide

Model	Type	Dia. (in.)	Center conductor	Insulation type	Shield coverage	Jacket type	Imp. (Ω)	Vel. factor	Loss/100' 100 MHz
8216	RG-174 Sub-miniature	.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50Ω	66%	8.4 dB
8219	RG-58A/U	.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC	53.5Ω	73%	4.5 dB
8240	RG-58/U	.195	20 AWG solid bare copper	Solid polyethylene	95% tinned copper braid	Black PVC	51.5Ω	66%	3.8 dB
8259	RG-58A/U	.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50Ω	66%	5.4 dB
8262	RG-58C/U non-contaminating	.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black, non-contaminating PVC	50Ω	66%	5.4 dB
9258	RG-8X Mini-8	.242	16 AWG stranded bare copper	Foam polyethylene	95% bare copper braid	Black PVC	50Ω	82%	3.1 dB
8214	RG-8/U	.403	11 AWG stranded bare copper	Foam polyethylene	97% bare copper braid	Black PVC	50Ω	78%	1.7 dB
8237	RG-8/U	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black PVC	52Ω	66%	1.9 dB
8267	RG-213/U non-contaminating	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black, non-contaminating PCV	50Ω	66%	2.1 dB
9913	Low loss semi-flexible RG-8/U	.405	10 AWG solid bare copper	Semi-solid polyethylene	100% bonded foil plus 90% tinned copper. braid	Black PVC	50Ω	84%	1.3 dB
9913F7	Low loss flexible RG-8/U	.405	10 AWG stranded bare copper	Gas-injected foam polyethylene	100% bonded foil plus 90% tinned copper braid	Black Belflex®	50Ω	84%	1.5 dB
8241	RG-59/U	.242	23 AWG solid bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75Ω	66%	3.4 dB
8213	RG-11/U	.405	AWG 14 solid bare copper	Gas-injected foam polyethylene	97% bare copper braid	Black polyethylene	75Ω	84%	1.3 dB
8238	RG-11/U	.405	18 AWG stranded tinned copper.	Semi-foam polyethylene	97% bare copper braid	Black PVC	75Ω	66%	2.0 dB

ROTOR CABLE

8448 Standard duty, 8 wire – Up to 100 ft. runs. Six #22 and two #18 AWG tinned copper conductors. PVC insulation and PVC jacket.

9405 Heavy duty, 8 wire – Over 100 ft. runs. Six #18 and two #16 AWG tinned copper conductors. PVC insulation and PVC jacket.

8484 Standard duty, 4 wire – (4) #20 AWG tinned copper conductors. PVC insulation and PVC jacket.

PREASSEMBLED COAXIAL HOOK-UPS

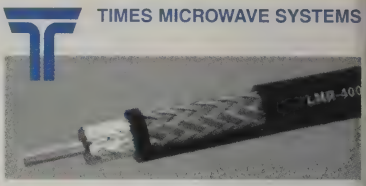
9354 – 50' RG-8/U low-loss foam, PL-259s **$96.99**
9355 – 75' RG-8/U low-loss foam, PL-259s **126.99**
9356 – 100' RG-8/U low-loss foam, PL-259s **146.99**

ANTENNA & GROUND WIRE

8000 – #14 AWG (7x22) stranded bare copper-covered steel antenna wire.

8018 – #8 AWG (solid) soft annealed aluminum ground wire – multiples of 50 ft.

TIMES MICROWAVE SYSTEMS



LMR-400 Low-Loss Flexible Coaxial Cable – The ideal replacement for RG-8/9913 air-dielectric cables. **Flexible:** Minimum bend radius of 1 in. is easier to handle compared to corrugated copper or smooth wall copper hard-line cables; **Dielectric:** High velocity gas-injected closed cell foam dielectric, 0.208 in.; **RF Shielding:** Bonded aluminum tape outer conductor, overlapped to provide 100% coverage and a 95% overall tinned copper braid. Lowest loss of any RG8/RG213 type cable; **Inner Conductor:** Solid BCCAl, 0.108 in.; **Jacket:** UV protected black polyethylene, 0.405 in.; **Velocity Factor:** 85%; **Loss (100 ft.):** 0.9dB @ 50MHz; 1.5dB @ 150MHz; 1.9dB @ 220MHz; 2.7dB @ 450 MHz, 3.9 dB @ 900 MHz, 6.0dB @ 2000 MHz..... per ft. **83¢**
LMR-400500 – 500 ft. roll of above **$319.99**

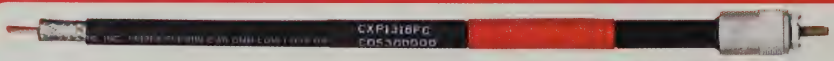
LMR-400-DB Watertight Flexible Coaxial Cable Same specifications as LMR-400 but incorporates an inert flooding compound that completely eliminates all paths of water migration and ingress for long term reliability (10 year warranty) per ft. **92¢**
LMR-400DB500 – 500 ft. roll of above **$359.99**

LMR-400-UF ULTRA-FLEX Coaxial Cable – Has a stranded center conductor. Very flexible, best used on rotating antenna systems and for jumpers. Loss is 15% greater than LMR-400 ..... per ft. **$1.18**
LMR-400UF500 – 500 ft. roll of above **$469.99**

AIM ROTARY COAX CABLE STRIPPERS

For quick, clean prep of coaxial cable without damage. Insert coax, turn clockwise 4 or 5 times.

24-7735P – for RG-58, RG-59, RG-62.. **$23.99**
24-7736P – for RG-6, RG-59, 8281..... **22.99**
24-7739P – for RG-8, RG-11, RG-213..... **33.99**



READY-MADE COAX CABLE ASSEMBLIES

CXP1318FC
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

CXP008C
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

CXP1318FN
Connector: **"N" Male both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,
Recommended frequencies: 150MHz & higher.

CXP08XC
Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0
Recommended frequencies: 1-30MHz.

CXP213C
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **1** (97%BC Braid) **V/P 66%**
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

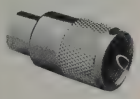
BRAIDED GROUND STRAP

Sizes: ..... 1/2" wide
or ..... 1" wide

CABLE X-PERTS, INC.
Connecting You to the World...
See Price Guide for Cable X-perts pricing.

UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.



AMPHENOL
83-1SP-1050 (PL-259) Male coax plug
83-1SP (PL-259) Silver-plated coax plug

VAN GORDEN
SILVER PLATED (PL-259) Teflon

AMPHENOL PL-259 REDUCING ADAPTERS
83-185-RFX For RG-58
83-168-RFX For RG-59/8X

AMPHENOL
83-878 UHF single hole bulk-head receptacle

AMPHENOL
83-1R (SO-239) UHF panel receptacle

SHAKESPEARE
PL-259CPG (PL-259)
No strip, Solderless male coax plug for RG-8X & RG-58/AU

SHAKESPEARE
PL-258CPG No strip, solderless splice for RG-8X & RG-58/AU

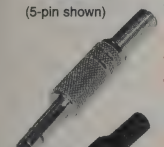
MICROPHONE & DIN CONNECTORS

VANCO
CBC-8P Panel mount 8-pin male

KENWOOD
7-PIN DIN plug
8-PIN DIN plug
13-PIN DIN plug

PHILMORE
61-608B 8-pin female mic plug

(5-pin shown)



VANCO
CBC-4 4-pin female mic plug
CBC-5 5-pin female mic plug
CBC-6 6-pin female mic plug

HOUSE OF DEALS
AP-115 1/4" metal stereo plug

HOUSE OF DEALS
AP-135 3.5mm stereo mini phone

DALBANI
15-0293 3.5mm mono plug

TYPE N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.

AMPHENOL
82-202-1006 Male for 8214/ 9913/9913F
34025 Male for RG-58

CABLE X-PERTS
TYPE N MALE PLUG
Two-piece, EZ-install type for 9913/ 8214

AMPHENOL
82-24 Type-N panel receptacle

AIM
26-8011 Type-N chassis mount

BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.

AMPHENOL
31-002 Male for RG-58
31-012 Male for RG-59/8X

AIM
27-8470 Dual chassis mount

AMPHENOL
31-221 Female chassis socket

COAXIAL ADAPTERS

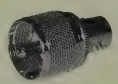
AMPHENOL
83-1T UHF T-connector adapter (M-358)

AIM
27-8140 BNC T (2 fem., 1 male)

AMPHENOL
83-877 UHF double male adapter

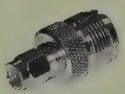
AMPHENOL
4400 SO-239 to Type-N male

AIM
26-8015 Type-N male to SO-239



AMPHENOL
31-28 BNC female to PL-259

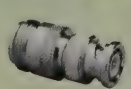
AIM
27-8120 BNC female to PL-259



HOUSE OF DEALS
SMA-872 SO-239 to SMA adapter

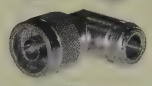
AIM
27-8130 BNC double male

AMPHENOL
2900 SO-239 to BNC male adapter



AIM
25-7420 BNC male to SO-239
26-8017 BNC male to N female

AMPHENOL
83-1AP UHF right angle (UG-146)



AMPHENOL
82-64 Type-N right angle adapter

AIM
26-8016 BNC female to N male

AIM
25-7365 BNC female to SO-239

AIM
29-4140 SO-239 to mini PL-259

AIM
26-8014 N female to UHF male

AMPHENOL
83-1J UHF double female (PL-258)

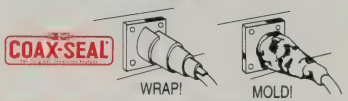
AIM
CPAD-207 Chassis mt SO-239 double female

AIM
26-8010 Type-N double female

AIM
29-3855 BNC female to SMA male

Prices for items on this page can be found under CONNECTORS in the Price Guide.

ANTENNA & COAX CONNECTOR PROTECTION



UNV 104 Hand Moldable Plastic for Antenna Component Protection – The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2"w x 60"..... **$3.99**

Cross Devices

STUF Dielectric Water-proof Connector Filler High purity macroscopic foam dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten. The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube) **$5.99**

PENETROX™

A highly conductive grease recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, bare conductors, and bus bars. Assures long term high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly to provide a non-corrosive, low resistance and air tight seal. Easy disassembly..... **PENETROX A** (4oz. bottle) **$14.99**

AMERITRON

REMOTE CONTROLLED ANTENNA SWITCHES

RCS-4 – Select up to 4 different HF antennas by supplying control voltages thru the coax without the need for a separate control line. The weatherproof switch box can be tower, mast or wall mounted. Uses 3 heavy duty 10A contact relays on a fiberglass circuit board 5.25"d x 7"w x 3"h.; 120VAC Rated 1.8–30 MHz, 2KW; Safe 14VDC control; Indoor control console locates at operating position. Dim: 6"d x 6"w x 2.5"h..... **$139.99**

RCS-8V – Independently or simultaneously select up to 5 different antennas using one coaxial feedline and 8-wire control cable. Internal wiring allows grounding or floating unused terminals as required. Rated at 5KW to 30 MHz, 1KW to 150 MHz. **$149.99**

RCS-8VN – Same as RCS-8V but with N-type female connectors..... **$159.99**

RCS-10 – Select up to eight HF antennas using one feed line and a single four conductor control line (not supplied). Long life sealed relays with 16A current rating. Rated up to 100 MHz and over 5KW power into matched loads below 30 MHz..... **$169.99**

MFJ

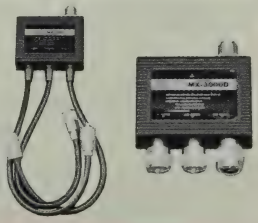
1703 Rig/Antenna RF Safety Switch – Prevents your rig from transmitting into nothing. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to different combinations. Range: 1.8-30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5"w x 2.5"h x 1.5"d..... **$24.99**

DUPLEXERS

Type	SO239 PL259/PL259	SO239 PL259/Nmale	SO239 SO239/SO239	SO239 PL259/PL259	SO239 PL259/Nmale	Nfemale PL259/Nmale	PL259 SO239/SO239
Leads	No	No	No	Yes	Yes	No	Yes
2m/440	Comet CF4160K Diamond MX72D	Comet CF4160I	Comet CF4160J MFJ 916B	Comet CF416A Comet CF530 Diamond MX72H	Comet CF416B Diamond MX72N Yaesu AD3	Comet CF416C Comet CF416W	
2m/220	Diamond MX214D			Comet CF142			
HF/6 to 440				Comet CF360A			Comet CF360B
HF to 6/2m				Comet CF706A Diamond MX62M			

TRIPLEXERS

Type	Leads	HF/6/2/440/1200	HF/6/2/440	2/220/440
Nfemale PL259/PL259/Nmale	No	Comet CFX4310C		
SO239 PL259/PL259/PL259	Yes	Diamond MX2000	Comet CFX514	Comet CFX324A Diamond MX324
SO239 PL259/PL259/PL259	No		Comet CFX5140	Comet CFX324B Diamond MX324D
Nfemale PL259/PL259/Nmale	Yes	Diamond MX3000		
SO239 PL259/PL259/Nmale	Yes		Comet CFX514N	
SO239 SO239/SO239/SO239	No		Comet CFX514J	



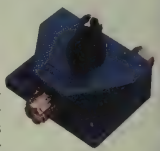
For Duplexer/Triplexer prices, see the Price Guide under each respective manufacturer.

COAXIAL ANTENNA SWITCHES

ALPHA DELTA

Two and Four Position Switches
Full Product Descriptions on page 85.

DAIWA industry co., ltd.



CS-201 2-Position Coaxial Switch
A high quality switch with excellent high frequency RF characteristics due to cavity and heavy die-cast metal construction. Frequency range up to 600 MHz with less than 0.12 VSWR. Less than 0.2dB insertion loss and 60dB isolation between terminals. Handles 2.5 KW PEP or 1KW CW. Automatic grounding of unused terminals. SO-239 connectors..... **$26.99**

MFJ

1700C Antenna and Transceiver Switch with Lightning Protection
Switch up to six antennas and six rigs in any combination. For 50 or 75Ω, rated 2KW PEP or 1KW CW from 1.8-30 MHz. Dim: 10"w x 3"h x 1.5"d..... **$99.99**

1701 Antenna Switch – Six positions, 50-75Ω. Rated for 2KW PEP or 1KW CW from 1.8–30 MHz. Grounds unused positions for surge protection. Dim: 10"w x 3"h x 1.5"d..... **$69.99**

1702C/CN

1704/N

1702C Antenna Switch – Two positions + center ground, 50Ω, rated to 500 MHz. Handles for 2.5KW PEP or 1KW CW. Less than than 0.2dB loss and greater than 60dB isolation @ 300; 50dB @ 450 MHz. Grounds unused positions for surge protection. **$24.99**

1702CN – Uses type-N connectors for lowest loss on UHF. Good up to 1.1 GHz..... **$34.99**

1704 Antenna Switch – Four positions + center ground, 50Ω, rated to 500 MHz. Handles 2.5kW PEP, 1KW CW. Less than 0.2dB loss and greater than 50 dB isolation @ 500 MHz. Includes lightning protection with a replaceable gas-tube..... **$69.99**

1704N – Uses type-N connectors..... **$79.99**

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

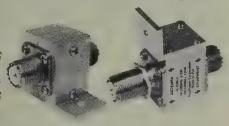
PolyPhaser CORPORATION

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a single, low impedance, ground system within the hamshack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor, etc.).

BROADBAND COAXIAL PROTECTORS

Hermetically-sealed gas tubes and additional components assure surge voltages and currents that are formed differentially on coaxial cable are prevented from being shared by valuable equipment. DC blocked for maximum protection. Low loss; Multi-strike capability with low strike throughput energy; Aluminum enclosure; Wide frequency range, low VSWR; Works on all equipment; Silver-center, TFE, UHF connectors; Silver shell and gold pin Type-N.

Flange Mount (left)



IS-50UX-C0 1.5–400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector.. **$62.99**

IS-50UX-C1 – 50–700 MHz; VHF 375W; UHF 125W; UHF connector **$62.99**

IS-50NX-C2 – 125–1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N connector. **$62.99**

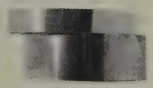
Bulkhead Mount (right)

IS-B50LU-C0 – 1.5–400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector **$65.99**

IS-B50LU-C1 – 50–700 MHz; VHF 375W, UHF 125W; UHF connector **$65.99**

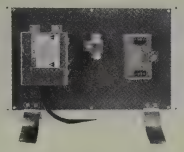
IS-B50LN-C2 – 125–1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N conn **$65.99**

LOW INDUCTANCE COPPER STRAP

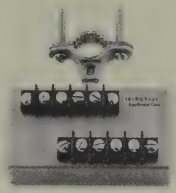


A larger surface area and lower inductance gives strap a huge advantage over wire for RF grounding and lightning protection. Cannot be fused open by lightning. Usable above or in-ground, #26 AWG thickness. Available in 1.5 or 3 in. widths and 25, 50 or 100 ft. rolls. **See Price Guide for details.**

GROUNDING PANEL



CU-SPGP – A heavy 0.062" copper plate mounted on 1/2" plywood. For mounting protectors and establishing the important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18"w x 12"h, sandwich bars, 16" on-center mount **$88.99**



ROTOR CONTROL PROTECTOR

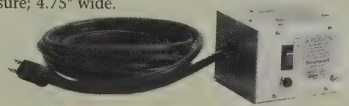
IS-RCT *(left)* – 8-wire protection for rotor box and nearby equipment. Water tight with mounting stud. Shown with optional J-1 clamp **$99.99**

IN-LINE PHONE LINE PROTECTOR

IX-1TW *(right)* – Multi-stage protection for telephone trunk lines. Handles ring voltages up to 105*V*, surges up to 36kA **$89.99**

POWER LINE EXTENSION PROTECTOR

In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. 2 grounded outlets, power switch, and circuit breaker. All aluminum grounded enclosure; 4.75" wide.



PLDO-120US15A – 15' cord; 120V/15A **$169.99**

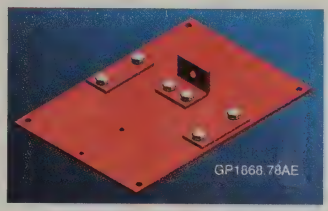
PLDO-120US20A – 6' cord; 120V/20A . **$199.99**

GROUNDING ACCESSORIES

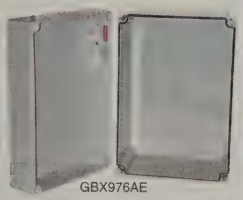
GEL3AE

GBIS18114AE 1/8" Copper Entrance Ground Bar Kit – Installs at shack entrance, making a short connection to the ground system. Holds up to five PolyPhaser IS-50-type lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Attach grounding wires from 1/0 stranded to #6 solid..... **$39.99**

GEL3AE – Pkg. of 5 HD terminal lugs..... **$26.99**



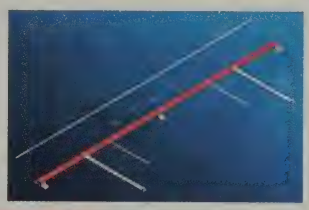
GP1868.78AE 1/8 in. Copper Single Point Ground Panel Kit – Provides Single-Point grounding for two transceiver lines and rotor control cable.



GBX976AE

Installs at tower base or on outside wall. Sized to fit inside a NEMA-4X style box for weather proofing. Tapped holes and hardware provided for mounting a **PolyPhaser** IC-RCT rotor control protector and up to two IS-50 series coaxial protectors. Sandwich plates and hardware included **$76.99**

GBX976AE NEMA 4X Waterproof Enclosure Accepts GP1868.78AE ground panel **$127.99**



GBIS18148AE 1/8" Copper Station Ground Bar Kit – Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4" strap and lugs for added assemblies **$83.99**

MFJ

270 Lightning Surge Protector – A replaceable ultra-fast gas discharge tube safely shunts up to 5000 amps peak impulse current to an independent ground. Rated to 400W PEP, usable up to 1000 MHz..... **$29.99**

AES LIGHTNING PROTECTORS

Gas-tube protection isolates equipment from damaging surges. The Gas-tube holder unscrews providing for simple replacement. Both models are weatherproof, may be bulk head mounted, or flange mounted using the included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5"l x 1" dia.

SP-U – UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss..... **$39.99**

SP-N – Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss **$39.99**

AP – Replacement Gas-tube protector **$9.99**

CABLE XPERTS – FLAT BRAIDED GROUND STRAP

Connecting you to the World

Flat, flexible, and tinned for easy soldering. Use the 1 in. wide size for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lighting protection.

2332 – 1/2 in./10 ga., rated at 53A ... per ft. **84¢**

2332 100 – 100 ft. roll of above..... **$66.99**

235 – 1 in./7 ga., rated at 85A ..... per ft. **$1.35**

235 100 – 100 ft. roll of above..... **$117.99**

Kleinhuis ISOLATED GROUNDING BAR

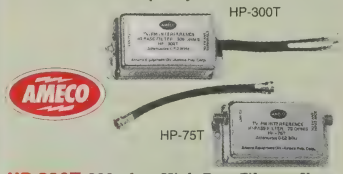
1309 Isolated Ground Bar – Provides additional panel, sub panel or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Corrosion resistant, nickel-plated, copper clamping rail. Locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5"w x 1.75"h **$14.99**

LOW-PASS & HIGH-PASS FILTERS

For suppressing Television interference (TVI) from nearby HF transmitters

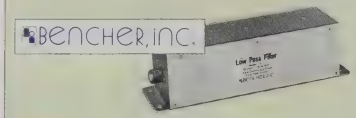
LOW-PASS FILTERS install in the transmission line between the transmitter and antenna or tuner. They are designed to allow signals below the cutoff frequency to pass through and attenuate signals above the cutoff frequency.

HIGH-PASS FILTERS install at the TV set antenna terminals and allow signals above the cut-off frequency to pass through and attenuate signals below the cutoff frequency.



HP-300T 300 ohm High-Pass Filter – Sharp cutoff at 52 MHz with 70dB attenuation below 50 MHz. For use with TV twinlead. C/O **$9.99**

HP-75T 75 ohm High-Pass Filter – For use with 75 ohm TV coaxial cable..... **$14.99**



YA-1 52 Ohm Low-Pass Filter – Covers 1.8-29.7 MHz, handles 1.5KW continuous (5KW Peak). Ultimate attenuation: 80dB @ 54 MHz. Loss: < 0.2dB. Dim: 9.2"w x 2.5"h x 2.5"d..... **$85.99**

LF-30A 52 Ohm Low-Pass Filter – Covers 1.8-30 MHz, handles 1 KW. Ultimate attenuation: >90dB above 90 MHz. Loss: <0.5dB @ 30 MHz. Dim: 9.6"w x 2"h x 1.5"d..... **$64.99**

704 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles full legal power. Nine Chebyshev poles and Teflon® capacitors. Attenuates above 40 MHz. Insertion Loss: <0.5 dB. RF tight cabinet. Dim: 3" h x 3"w x 9"d **$49.99**

LP-30 Low 52 Ohm Low-Pass Filter – Covers 1.8-30 MHz, handles 1.5 KW. Up to –70dB harmonic attenuation..... **$79.99**

LP-2500 – Same, but 2.5KW rating.. **$139.99**

HPF-1 300 ohm High-Pass Filter – High harmonic attenuation in the 52–550 MHz TV passband. 75 ohm balun and F connector .. **$24.99**

HPF-2 – Same, but deluxe version..... **$29.99**

Gift Certificates ...
available from all AES locations

DCI DIGITAL COMMUNICATIONS

BANDPASS FILTERS

Install in transmission line between a 2 meter, 220 or 440 MHz rig and antenna to reduce strength of out-of-band interfering signals while allowing wanted signals to pass through at full strength. Eliminate squeals, squawks, beeps and strange voices from a UHF or VHF radio caused by intermodulation from strong, nearby pagers, police radio, etc. Effectively reduces spurious emissions on transmit. Hear desired signals even in crowded, urban centers. 2M/220 MHz uses four helical resonators, 440 MHz uses four 1/4-wave linear resonators, both with aperture coupling. VSWR 1.5:1; 200W power rating; Made of extruded aluminum, copper and brass. Dim: 12w"x 3"h x 5"d; 2 lb, 11oz.

146-4H – 144–148 MHz. Loss <1 dB; Selectivity: –57dB @ 136 MHz and –43dB @ 156 MHz. SO-239 silver-teflon connectors..... **$119.99**

145-2H – Same, but 144–146 MHz **$119.99**

146/444DB – 144–148 / 438–450 MHz. Selectivity: –50dB @ 136 MHz, –40dB @ 156 MHz, –30dB @ 425 MHz, –25dB @ 465 MHz. SO-239 silver-teflon connectors..... **$189.99**

223.5-3H – 222–225 MHz. Loss 1 dB; Selectivity: –33dB @ 213 MHz and –28dB @ 233 MHz. SO-239 silver-teflon connectors..... **$119.99**

445-10C – 440–450 MHz. Typical selectivity: –47dB @ 425 MHz, –50dB @ 456 MHz; Loss 1dB. Type-N silver-teflon-gold connectors..... **$139.99**

435-10C – Same, but 430–440 MHz **$139.99**

Upgrade to type-N connectors on 2m and 220 MHz models – add $10 to price. Special Order

MFJ FERRITE RFI KITS

701 RFI Free Choke Kit – Eliminate RFI problems by winding offending cables around an RFI suppressing toroid. Effective from 0.5-200 MHz. Separates into halves for easy winding of all types of cable – computer ribbon, coax, power cord, telephone, audio-video. Halves mount in snap-together plastic frame. Multiples can be stacked for more effect..... (Pack of 4) **$16.99**

Palomar Engineers

RFI-4 RF Interference Kit – A selection of ferrite toroids and beads to eliminate RFI from 1–1000 MHz. Contains: 12 beads with 0.2" holes for small wires and cables, 4 toroid (donut shaped) cores with 1/2" holes, 4 with 3/4" holes and 4 split beads (toroids cut in half so you can put them over cables without disconnecting). Two fit over RG-58 (1/4" hole) and two fit over RG-8 (1/2" hole). Includes a RFI tip sheet explaining the use of ferrites and how to use them to keep RF out of computers, stereos, VCRs, alarm systems, and telephones..... **$25.99**

K-COM TELEPHONE RF INTERFERENCE FILTERS

Cure telephone RF interference in the most irritating cases even when dealing with transmitters with full legal power output. Use any number of filters with no adverse effect on telephone performance.

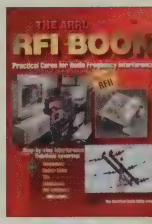
RF-1 – For single line equipment including wired or cordless phones, answering/fax machines, modems, etc. Uses standard modular connectors..... **$16.99**

RF-1/2-LINE – For 2-line or multi-line, multi-station electronic key phone systems..... **$22.99**

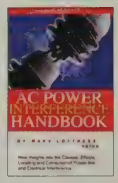
RF-1/COILED – For use when RFI enters thru coiled telephone cord between base and handset .. **$22.99**

RF-2 – Hard-wired, provides a wide range of installations optional to add RFI rejection at a variety of physical/electrical locations in the system; inside jacks, behind wall mounts, etc **$10.99**

Interference and Filter Publications



The ARRL RFI Book Loads of information for practical interference cures: Power line, Automotive, Television, Computers, Lamps, VCRs, Stereos, Intermod, Telephones. Latest regulations, suppliers, more. 235 pages. ARR 6834 **$24.95**



AC Power Interference Handbook – 2nd edition, revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power-line and electrical interference. 18 chapters ..... ARR 9055 **$29.95**

Ferromagnetic-Core Design & Application Handbook – The legendary textbook from the late Doug DeMaw, W1FB emphasizes the practical aspect of ferromagnetic core material. 256 pages ..... MFJ 3506 **$19.95**

Ladder Crystal Filters – A handy reference guide for the development and construction of Ladder Crystal Filters by John Pivnichny, N2DCH. 134 pages ..... MFJ 3509 **$19.95**

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Study with the best!

FCC License Study Materials by Gordon West, WB6NOA and The W5YI Group

Technician Class

***Technician Class* manual** NEW for the 2006-10 Entry-Level! Gordo has reorganized the questions into logical topic groups for easier learning! Key words are highlighted in the explanations to help you remember the material for test success. Web addresses for more than 150 helpful, educational sites. Bonus audio CD teaches VHF propagation. W5Y GWTM-06 $18.99

Tech Book & Software Package
Package includes Gordo's book and Windows program that allows you to study at your computer and take practice exams. Gordo's explanations from the book are now on the software! With free Part 97 Rule Book. W5Y NCS-06 $44.99

Tech Audio Course on CD
Technician Theory Course recorded by Gordo walks you through what you need to know for the Element 2 exam. Great study companion to his *Technician Class* book, and an excellent study aid if you spend a lot of time in your car or truck! 4 audio CDs. W5Y GWTW-06 $27.99

Tech + General Software Value Pack
Includes *Technician Class* and *General Class* books, plus software for the Elements 2 and 3 exams, and bonus W5YI Morse code teacher software. Includes free Part 97 Rule Book. Get into ham radio and upgrade to the worldwide HF bands all with one educational package! W5Y TPG-06 $64.99

Learn Morse Code for General Class HF Fun!

In-depth CD/6-tape, audio courses recorded by Gordo:

0-5 wpm on 8 audio CDs W5Y GW05/CD $39.99
5-13 wpm on 6 audio tapes W5Y GW13 $29.99
10-28 wpm on 6 tapes W5Y GW20 $29.99
GW13 & GW20 are special order items.

0-5 wpm CW refresher course on 2 CDs W5Y GWCT $14.99
W5YI code software 0-48 WPM W5Y WMC $19.99

Our *Basic* books teach you Electronics

Basic Electronics W5Y BELC $19.99
Basic Digital Electronics W5Y BDIG $19.99
Basic Communications Elec. W5Y BCOM $19.99

General Class

***General Class* book** Upgrade to the HF bands with Gordo & W5YI! Gordo's manual for 2004-07 reorganizes all the questions into logical topic groups for easier learning. His explanations include highlighted key words to help you remember the material for test success. More than 150 addresses of helpful, educational websites. Full of great operating tips! W5Y GWGM-04 $17.99

General Book & Software Package
Study at your computer and take practice exams. Software includes explanations from Gordo's book, scores your results and highlights areas that need further study. Includes free Part 97 Rule Book. W5Y GUS-04 $39.99

General Audio Course on CD
General Theory Course recorded by Gordo is full of the sounds that bring ham radio to life! He talks you through the Element 3 theory to help you understand the material and get you ready for your upcoming exam. 4 audio CDs. W5Y GWGW-04 $27.99

No Internet Connection Required!

Ham Operator Software has All Exams
Want to study at your computer without tying up your internet connection? This value pack includes the Tech, General and Extra class exams (Elements 2, 3, and 4) along with the W5YI Morse code software and a free Part 97 Rule Book. Includes Gordo's answer explanations from his books! Everything you need to go all the way to the top!
Software only W5Y HOS-06 $39.99
Software with all 3 West Books W5Y HOSB-06 $84.99

Get Your Commercial License!

GROL-Plus book covers FCC Elements 1, 3 & 8 for MROP, GROL, and Radar Endorsement W5Y GROL $39.99

GROL-Plus book with practice exam software. W5Y GRSP $69.99

Extra Class

***Extra Class* book** Go to the top with Gordo! 2002-2008 book includes all Element 4 questions and answers, along with Gordo's fun, educational explanations. Full of Gordo's great memory tricks for those tough math and electronic theory questions (wait 'til you meet "Eli the Ice Man")! W5Y GWEM-02 $19.99

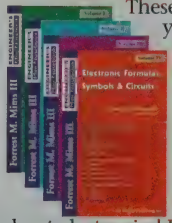
Extra Book & Software Package
Study at your computer and take practice exams as the W5YI software scores your results and highlights areas that need further study. Software includes explanations from Gordo's book. Package includes Gordo's *Extra Class* book and free Part 97 Rule Book. W5Y ECS-02 $39.99

Extra Audio Course - Now on CD
Extra Class Theory Course recorded by Gordo talks you through the difficult Element 4 theory to help you understand the material and get you ready for your upgrade to the top. On 7 long play audio CDs. W5Y GWEW-02/CD $39.99

Getting Started in Electronics

by Forrest M. Mims
A great introduction for anyone who wants to learn the fundamentals of electronics. Includes 100 projects you can build, and great experiments that demonstrate how electricity works! W5Y GSTD $19.99

Engineer's Mini Notebooks

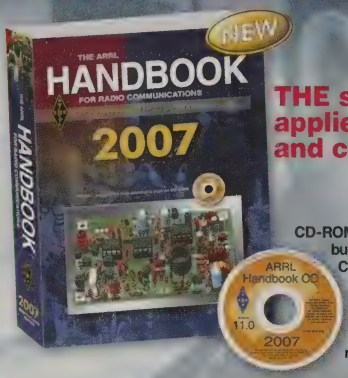


These Mims classics teach you hands-on electronics! Study and build 100's of practical circuits and fun projects. Each volume contains several of his famous Mini Notebooks. Terrific ideas for science fair projects! A great way to learn about electronics! Useful reference guides for your workbench!

Vol. 1: Timer, Op Amp, & Optoelectronic Circuits & Projects W5Y MINI-1 $12.99
Vol. 2: Science & Communications Circuits & Projects W5Y MINI-2 $12.99
Vol. 3: Electronic Sensor Circuits & Projects W5Y MINI-3 $12.99
Vol. 4: Electronic Formulas, Symbols & Circuits W5Y MINI-4 $12.99

ARRL Handbook
2007 Edition with Bonus "January 1942 *QST*" Reissue

While supplies last.



THE standard in applied electronics and communications.

CD-ROM INCLUDED! This edition is bundled with The ARRL Handbook CD (version 11.0)—the complete and fully searchable book on CD-ROM, including many color images, PC board templates, additional software and reference material.

Softcover. Includes book, CD-ROM and Bonus "**January 1942 *QST***" reissue. **ARR 9760** **$44.95**

Hardcover. Includes book, CD-ROM and Bonus "**January 1942 *QST***" reissue. **ARR 9779** **$59.95**

65 Year Commemorative Reissue

Facts about the January 1942 issue of *QST*!

- First issue following Pearl Harbor attack, Volume XXVI, Number 1
- Contains last-minute press pages: "WAR COMES!"
- Includes the FCC Order suspending Amateur Radio operation in the US, issued December 8, 1941
- 100 pages of nostalgic editorial, feature articles, advertisements, and cartoons

Sixty-five years later, this commemorative reproduction of *QST* is a time capsule—a tribute to the perseverance and patriotism of radio amateurs!

World War II-era QST Offer!

A Limited Edition.

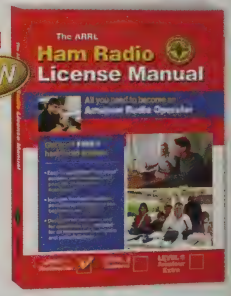
A Bonus January 1942 issue of *QST* has been shrink wrapped with a limited edition of 2007 Handbooks.

We will ship the Bonus issue with both Soft and Hardcover 2007 versions until our limited inventory is gone. First come, first served.

ARRL *The national association for AMATEUR RADIO*

The ARRL Ham Radio License Manual

All you need to become an Amateur Radio Operator



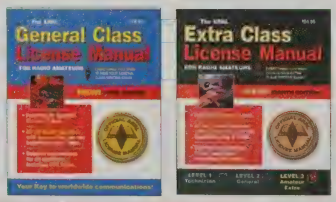
- 35-question Technician test (Element 2)
- No Morse code exam

For exams beginning July 1, 2006.

ARR 9639 ..... **$24.95**

The is ham radio's most popular license manual! Organized in easy-to-understand "bite-sized" sections. Every page includes information you will need to pass the 35-question exam and become an effective operator. Includes the latest question pool with answer key. Designed for self-study and for classroom use.

STUDY MATERIALS



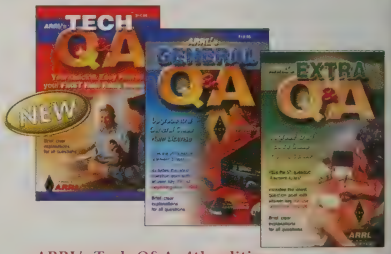
General Class License Manual
All study material needed..... **ARR 9205 $19.95**

Extra Class License Manual
Complete test material source... **ARR 8659 $24.95**

Getting Started with Ham Radio
A guide to your first Amateur Radio station. Select radios and antennas; Explore operating modes: voice, Morse code, digital and more; Assemble your station; Operating; QSLing and More!
ARR 9728 $19.95

Your Introduction to Morse Code
A cassette tape or CD series from ARRL to teach Morse code in order to pass the General license exam. Set includes plain-language practice text and Morse code exams using the format of a typical amateur contact. Tapes or CD format.
C/O **ARR 8322 (tapes)/ARR 8314 (CDs) ea. $14.95**

ARRL Ham Radio License Manual
Use this book to pass the 35-question license test and get your FIRST ham radio license! Includes the latest question pool with answer key. Designed for self-study and for classroom use. Intended for all newcomers, instructors and teachers.
This is the most popular introduction to Amateur Radio – your ticket to joining the ranks of "ham" radio operators. Use this book to discover the appeal of ham radio and the unique mix of technology, public service, convenience and fun.
ARR 6939 $24.95

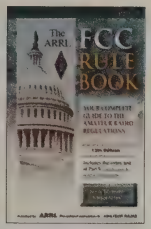


ARRL's Tech Q&A, 4th edition
It's Quick and Easy to earn your FIRST amateur radio license with this study guide and the convenient question and answer format. Your authoritative guide to every question in the Technician Class (Element 2) question pool ..... **ARR 9647 $15.95**

ARRL's General Q&A
Authoritative guide to every General question in the pool. Everything needed to pass! Explanations to possible questions..... **ARR 9213 $15.95**

ARRL's Extra Q&A
Includes the latest question pool with answer key for Extra class license exam. Brief clear explanations for all possible exam questions . **ARR 8888 $17.95**

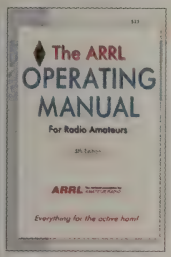
FCC Rule Book



To ensure compliance, every ham should have a copy of the Rules that govern the Amateur Radio Service. Here's a complete guide to all FCC regulations in one book.

ARR 9000 $12.95

ARRL Operating Manual



The most complete book about Amateur Radio operating. Information about new bands, modes or activities. Covers rules and regulations,repeaters, EchoLink, IRLP, APRS, meteor scatter, DXing, contesting and award hunting.

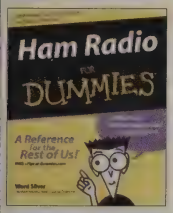
ARR 9132 $25.00

Ham Radio FAQ

The ARRL Lab and "The Doctor" answer your frequently asked questions. Useful information on: antennas, transmission lines and propagation, station, mobile, portable, repeaters, batteries, grounding and lightning.

ARR 8268 $14.95

Ham Radio for Dummies



Thoroughly explains Ham Radio. What is needed to get started, and how to become a licensed ham operator – all in plain English.

Chapters: *What is Ham Radio All About?; Wading through the Licensing Process; Hamming it Up; Building and Operating a Station That Works; Secrets and Tips*

WIE HRFORDUMMIES $21.99

2006/07 Large Easy-to-Read Repeater Directory

New edition of listings for voice and digital repeaters and propagation beacons located in the Americas. IRLP and Echolink. Also find band plans, tone chart, committees, clubs and more. New 6 x 9 in. size.

ARR 9590 $15.95

Original, pocket-sized version ..... **ARR 9582 $10.95**

2006/07 TravelPlus for Repeaters™ v.10.0 CD

Two major functions – *Map View* to find repeaters along your travel routes, and *DataSource* for direct selection, sorting and printing of repeater information. You can choose maps showing major highways in the US and Canada, or more detailed maps that add state highways in the US. There are separate maps for Alaska, Hawaii, US counties and Rail. The *DataSource* allows you to to select repeaters by band and location. Windows 98SE-XP..... **ARR 9604 $39.95**

AMATEUR RADIO INFO / MATERIALS

Repeater Map Book 12th Edition

The perfect travel companion containing 100's of open repeater locations throughout the U.S., Canada and Mexico. Detailed maps show all highways and major cities in each state. Grid squares on every U.S. map and NOAA weather frequencies for the U.S.

ART REPEATERMAP $14.99

Log Book

This universal log suits all amateur DXing, contests, rag-chewing. 8.25" x 11"..... **ARR 1250 $7.95**

Minilog

For portable/mobile ops, 6.5" x 4"..... **ARR 7539 $4.95**

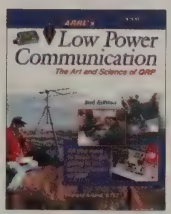
QRP OPERATION

More QRP Power

QRP means operating with low power – 5W or less. An anthology of articles from recent issues of QST and QEX magazines, covering construction practices, transceivers, accessories and antennas, There are dozens of projects and articles to help with assembly or improve a QRP station for home or travel.

ARR 9655 $19.95

Low Power Communication 2nd Ed.



The Art and Science of QRP, by K7SZ. The low power game is one of ham radio's most exciting and rewarding challenges. Here's the lowdown on low power operating, from selecting gear, to advanced operating techniques, antennas, emergency communications, solar power and more!

ARR 9175 $19.95

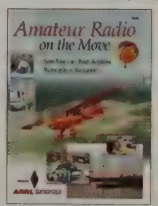
W1FB's QRP Notebook

Packed with construction projects for QRP transmitters, receivers and accessories. Gain understanding of circuits. Experience first hand the thrill of making contacts using equipment that you've built.

ARR 3657 $10.00

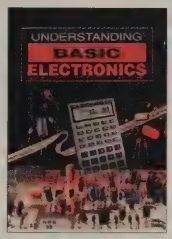
MOBILE OPERATION

Amateur Radio on the Move



Car or RV, Boat, Airplane, Motorcycle or Backpack! Expert advice about Radios that you can use mobile. Getting power to run a radio, installation tips, safety, and antennas for mobiling. Also getting rid of the noise, operating hints and tips, software and more! ..... **ARR 9450 $19.95**

Understanding Basic Electronics



For beginners and those who want to brush up on electronic principles. Clear, simple explanations and loaded with illustrations.

ARR 3983 $29.95

Basic Radio

A comprehensive introduction to radio – what it does, and how it does it. The key building blocks of radio: receivers, transmitters, antennas, build-it-yourself projects to turn theory into practice and helping reinforce important subject matter.

ARR 9558 $29.95

Introduction to Radio Frequency Design

The functional methods of frequency design using mathematics as needed to develop intuition for RF circuits and systems. Many simple circuit models prepare you to actually design HF, VHF and UHF equipment.

ARR 4920 $39.95

Hints & Kinks for the Radio Amateur

Brings together the best of Amateur Radio tips and techniques – antennas, weekend projects, shack accessories and operating from the pages of QST. You'll find articles included from interesting columns, *The Doctor is In* and *Hands-On-Radio*. Learn more about a new mode, or find your next construction project!

16th Edition ARR 8926 $15.95
17th Edition ARR 9361 $17.95

Heil Ham Radio Handbook

Loads of useful information for the beginner through the more advanced operator. Chapters on Basic electronic and antenna theory, "building your own," and assembling an amateur radio station and much more!

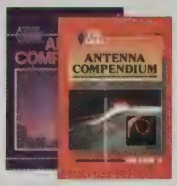
HEI HAMRADIOHAND ... $10.00

Ham Radio Anthology

Homebrewing techniques from the pages of *Ham Radio Magazine* (1968-90). Practical advise and techniques for many interesting projects. All 170 pages are presented just the way they were originally published.

CQX HRANHOMEBREW
$19.99

ANTENNAS



Antenna Compendium 1

The premiere volume includes articles on a multiband portable, quads and loops, baluns, the Smith Chart and more

ARR 0194 **$10.00**

Antenna Compendium 2

Wide range of types and related topics, including innovative verticals, an attic tri-bander, antenna modeling and propagation ..... ARR 2545 **$14.00**

Antenna Compendium 5 with software

Baluns, HF beams, yagis and quads are just some of the subjects covered. Articles on antennas, transmission lines and propagation. Projects to build. Includes IBM software for plotting antenna model data files ..... ARR 5625 **$20.00**

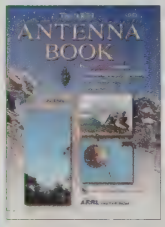
Antenna Compendium 6 with software

More articles on antennas, transmission lines and propagation. More projects ..... ARR 7431 **$22.95**

Antenna Compendium 7

Articles covering a wide range of antenna related topics including measurements and computations, mobile and multibands, practical tips and propagation and ground effects. This volume includes even more articles on low-band antennas and operating, and great designs for mobile operation. 208 pages.

ARR 8608 **$24.95**



ARRL Antenna Book

In depth coverage of antennas, feed lines and propagation. THE SOURCE for current antenna theory and a wealth of practical, how-to construction projects. Extensively revised, and featuring antenna designs enhanced by the latest advances in computer modeling. Plus CD!

ARR 9043 **$44.95**

Simple & Fun Ham Antennas

Lots and lots of real-world, practical antennas you can BUILD YOURSELF! 16 chapters on different types of HF, VHF antennas, masts and supports, towers and performance. 70 useful projects.

ARR 8624 **$22.95**

RF Amplifier Classics

Amplifiers for the HF, MF, VHF and Microwave bands. Practical designs and construction details for classic tube and solid-state amplifiers from 5W to 1.5kW.

ARR 9310 **$19.95**

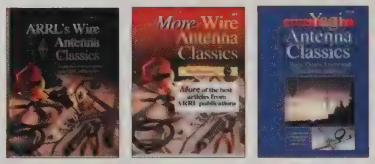
ANTENNAS

VHF/UHF Antenna Classics

Ground planes, J-poles, mobiles, Yagis. Build a better antenna for an HT. Construct a 2 meter Yagi that rivals commercials. Includes projects from the 1980 to 2003 issues of QST . ARR 9078 **$14.95**

Vertical Antenna Classics

Articles from *QST* and the *Antenna Compendium* series. Tips and techniques from QST's "Hints & Kinks." Includes theory, modeling, VHF, UHF, HF, directional arrays, reduced size, radials and ground, antenna product suppliers..... ARR 5218 **$12.00**



Wire Antenna Classics

Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinears, rhombics, wire beams, vertically polarized and receive antennas are all featured, even tree-mounted antennas ..... ARR 7075 **$14.00**

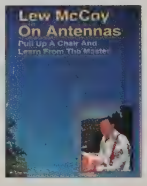
More Wire Antenna Classics

Enjoy even MORE wire antennas! Filled with innovative designs from the pages of QST and other ARRL publications..... ARR 7709 **$17.95**

Yagi Antenna Classics

Collection from QST, QEX and others. Provides a historical perspective, novel and ambitious ideas, as well as computer-optimized designs. Chapters on mono/multibanders, HF, VHF and UHF beams, computer modeling, masts..... ARR 8187 **$17.95**

Lew McCoy on Antennas



Pull up a chair and learn from the master! Loaded with antenna projects for Tech thru the Extra class

CQX LEWMCCOY **$15.99**

W6SAI HF Antenna Handbook

Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis and verticals antennas.

CQX W6SAIHFANT **19.99**

MARINE OPERATION

Marine Amateur Radio

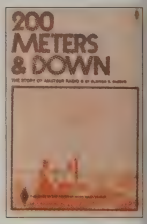
All the information you need to select, install, and operate an inexpensive and completely dependable ham radio system on any boat, power or sail. Explains how to use your radio for voice or Morse code communications and how to check and send e-mail, link up with onshore signal repeaters to extend your range, and even make personal phone calls ..... ARR 9723 **$12.95**

HISTORY / ARCHIVES

Vintage Radio

A collection of articles published in QST magazine describing vintage equipment and interesting points in the history of Amateur Radio that will evoke a sense of nostalgia. Articles were published between 1977 and 2003, including classic QST advertisements from the 1920s through the 1970s

ARR 9183 **$19.95**



200 Meters & Down

The Story of Amateur Radio by Clinton B. DeSoto. Chronicles the exciting evolution of Amateur Radio from the pioneers who perfected the wireless art through the technical advances of the mid-1930s.

ARR 0011 **$12.00**

ARRL Periodicals on CD

Complete text and illustrations for all articles in *QST*, *QEX* and *NCJ* for year. Include search engine, book-marking, windows printing, software project source code, PC board etching patterns and clipboard support. Info by title, name, call sign, keyword, web. Windows™ 3.1 minimum. Individual CDs by year 1995-to 2005 ..... each **$19.95**

ARR 5579 (1995) • 6109 (1996) • 6729 (1997) 7377 (1998) • 7881 (1999) • 8209 (2000) 8632 (2001) • 8802 (2002) • 9124 (2003) • 9396 (2004) 9574 (2005)

QST Views

Back issues of QST available in full years on CD-ROM. Every page is stored as a black and white image that can be read or printed. Easy to use software allows you to: Search by title and author; Select by year and issue and browse individual articles. For Windows™ 3.1 or higher. Five years per CD-ROM ..... each **$39.95**

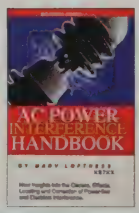
ARR 5781 (1970-74) • 5773 (1975-79) 5765 (1980-84) • 5757 (1985-89) • 5749 (1990-94) 8497 (1995-99) • 9418 (2000-04)

INTERFERENCE SOLUTIONS

ARRL RFI Book

By Ed Hare, W1RFI – 318 pages of interference solutions for TV, telephones, power lines and electrical devices, cable systems, VCRs, stereos, computers and more

ARR 6834 **$24.95**



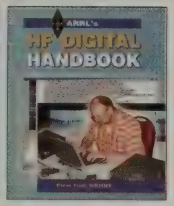
AC Power Interference Handbook, 2nd edition

By Marv Loftness, KB7KK – New insights into the causes, effects, locating and correction of power-line and electrical interference. This easy to read, very practical book, is a must for anyone responsible for solving interference problems.

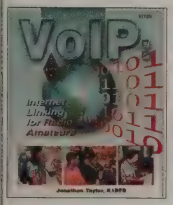
ARR 9055 **$29.95**

DIGITAL MODES

HF Digital Handbook



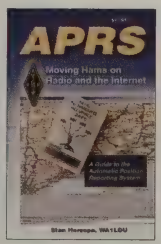
3rd Edition – Discover the wonders of RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hell-schreiber, MFSK16 & PSK31. All it takes is your computer, an SSB transceiver and an HF modem, multimode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet email via HF radio, and more! .. **ARR 9159 $19.95**



VoIP: Internet Linking for Radio Amateurs

Growing numbers of hams are using Voice Over Internet (VoIP) Protocol in combination with radios for long-distance communication using the internet. A guide to the 4 primary VoIP systems used by hams: EchoLink, IRLP, eQSO and WIRES-II. For beginners and more advanced ..... **ARR 9264 $17.95**

APRS – Moving Hams on Radio and the Internet



Guide to the Automatic Position Reporting System. Track moving objects, display weather statistics and storm warnings, find hidden transmitters or jammers and more. Learn how to set-up and operate your APRS station with just a VHF radio and computer. **ARR 9167 $17.95**

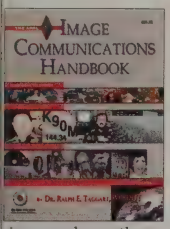
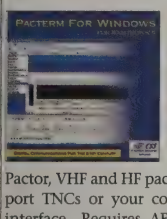


Image Communications Handbook

Explore the possibilities of using amateur radio to see and talk with other hams! With PCs, widely available software and gear many hams already own, it's easy to enjoy imaging modes: narrow band and amateur television, slow-scan television, and weather satellite imaging (WEFAX). Includes CD-ROM ..... **ARR 8616 $25.95**



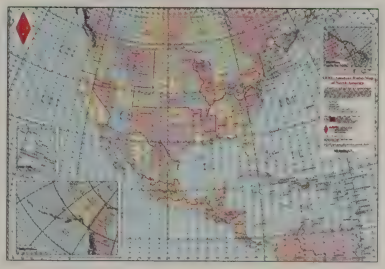
PkTerm 3.0 and PacTerm 3.0 for Windows CD

Creative Services Software 32 bit terminal software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmost for TNC interface. For Soundcard Only mode use any of the popular soundcard interfaces like the Hamhub, RIGblaster or MFJ-1275/1279 interfaces. Built-in logging feature.

CSS PACTERMFORWI for Kantronics TNCs **$99.99**
CSS PKTERMFORWIN Timewave/AEA PK-12/96/232 on CDROM **$99.99**

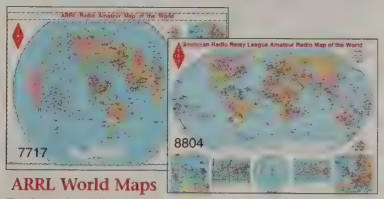
Order from ANY AES LOCATION

MAPS/ATLAS/GRIDS



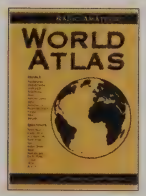
ARRL Amateur Radio Map of North America

This large, colorful wall map features current geographic detail and labels, grid squares, call sign prefixes, boundaries and more. Great for all operators! Essential for contesters, WAS, VHF/UHF Century Club, and other award seekers. Also makes a great hurricane tracking map. Dim: 27 x 39 in., durable plastic laminated ..... **ARR 8977 $15.00**



ARRL World Maps

Each colorful map features current geographic detail and world-wide call sign prefixes. **Azimuthal Projection** is centered on the central USA and is useful for antenna beam headings. 27 x 39 in., laminated. **Robinson Projection** is the popularized classroom-style projection map. 26 x 34.5 in., laminated **ARR 7717/8804** each **$15.00**



Radio Amateur's World Atlas

16 pages of colorful maps covering the Americas, West Indies, Asia, Japan, Australia, Pacific Ocean, Europe, Africa and Antarctica.

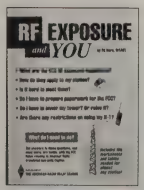
ARR 5226 $12.95

The ARRL World Grid Locator Atlas

Information on the locator system and maps showing all 32,400 Maidenhead grid squares.

ARR 2944 $5.00

HEALTH/SAFETY



RF Exposure and You

Hams must comply with the FCC RF Exposure requirements. The FCC Form 610 includes an RF safety certification that must be signed. This book tells how to meet the requirements. Over 200 tables and graphs.

ARR 6621 $22.95

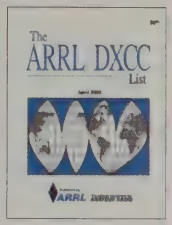
Lightning Protection and Grounding Solutions

How to install an effective grounding and protection system to guard communications equipment against destructive lightning surge energy.

PLY LPGS $20.00

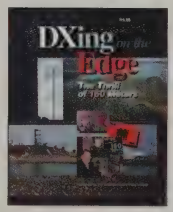
LONG DISTANCE COMMUNICATION (DX)

The ARRL DXCC List



April 2006 Edition

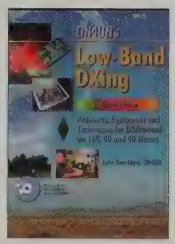
The Official DXCC information source. Record the entities you've worked and QSLed. Complete listing of DXCC rules. Contains data about each entity on the DXCC List, deleted entities and the latest additions. Also included are the prefix cross-reference and list of international callsign series. Award descriptions and information about obtaining numerous DXCC items . **ARR 9612 $5.95**



DXing on the Edge

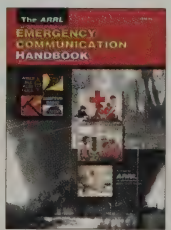
The Thrill of 160 Meters, by Jeff Briggs, K1ZM. A fascinating chronicle of what it takes to navigate the 160M band. Includes useful operating tips and descriptions for many practical antennas. Includes a CD with truly exotic, exciting QSOs made from prominent DX stations. Many photos and historical data included, from the early 30s through present day ..... **ARR 6354 $29.95**

ON4UN's Low-Band DXing



New 4th Edition – A must for DXers, contesters and casual operators who even occasionally venture onto the low bands! This extensively revised edition brings you the latest antennas, techniques and equipment for DXcitement on 160, 80 and 40-meters. Follow the outstanding achievements of John Devoldere, ON4UN, as he presents practical information you need to operate a highly successful station on the low bands. Includes the fully searchable book on CD-ROM..... **ARR 9140 $39.95**

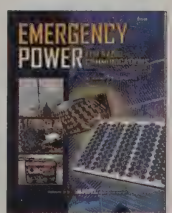
EMERGENCY COMMUNICATIONS



The ARRL Emergency Communication Handbook

Intended for all hams that volunteer their skills in public service applications (or who are interested in doing so). Includes details on basic emergency communication skills, message handling, and more. Understand what to expect and what to take along. This book covers the Amateur Radio Emergency Communications Course (Level 1) manual but adds additional material..... **ARR 9388 $19.95**

Emergency Power for Radio Communications

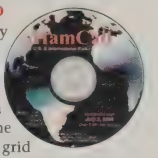


Explore electric power generation from charging batteries to keeping the lights on. Solar Power, Controllers, Generators, (Gas, Wind and Water), Inverters, Instruments and Safety.

ARR 9531 $19.95

CALL SIGN LOOK-UP ON CD

Buckmaster HamCall CD



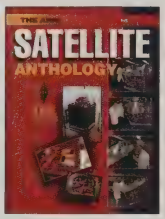
Over 1.5 million listings by name, address, county, country and license class. Displays license issue date, expiration, previous call and class, area code, e-mail, URL, county, time zone, latitude/longitude, grid square, beam heading and long/short path distance. PC DOS and Windows (3.1, 95, 98, XP) compatible; Extensive international listings; Label printing; 4,000+ photos and QSL cards; Interfaces with most logging programs..... **BUC HAMCALL $50.99**

QRZ Ham Radio CD

Volume 27, September 2006. 1,250,000 names, callsigns and addresses of world-wide amateurs. Latest FCC callsigns with over 232,000 e-mail addresses. Includes country names for calls; 12,000+ QSL cards; Built-in text editor; 17-button multi-function toolbar; Auto storage of personal data; Auto QSL card generator; User customizable display; Multi-page printing and Multi-hit retrieval Supports Windows OS..... **WAL HAMQRZ $24.99**

SATELLITE INFORMATION

Satellite Anthology 5th edition



A compilation of QST articles dealing with satellites like Amsat-Oscars 10 and 13, Russian RS series and the Microsats.

ARR 7369 $15.00

Radio Amateur's Satellite Handbook

A comprehensive book written about amateur satellites from setting up a station and choosing the right antenna to tracking. Regardless of your level of experience with ham satellites, you'll find what you're looking for in this book.

ARR 6583 $24.95

LOGSAT PRO Satellite Tracking Software CDROM

Track hundreds of satellites in dozens of windows. Kansas City Tracker support; Complete multi-tasking; Unlimited open satellite windows at the same time; Voice alarms when satellite window becomes visible; 5 map projections; 3D antenna radiation diagrams can be displayed; Online help; The Satellite Encyclopedia. Requires Windows® OS, 286 or better processor, 4MB RAM and 15MB disk space, PC sound card with computer speakers ..... **LOG LOGSATPRO $69.99**

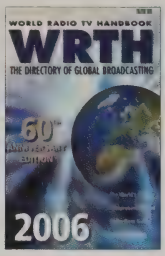
ORDER ON-LINE!

www.aesham.com

We accept I.M.P.A.C.® Government Credit Cards

RADIO/TV RECEPTION GUIDES

2007 World Radio TV Handbook



The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting for the serious radio listener. Informational articles, operating hints and latest product reviews.

WAT 059979 $29.95

Note: 06 version shown

2007 PASSPORT to World Band Radio

Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular worldband radios, many antennas, and expanded station address lists. 592 pages.

IBS 2007 $22.95

WEATHER INFORMATION

Weather for Dummies

Are you dazzled by dramatic displays of thunder and lightning – and wonder why these forces of nature occur? This guide offers easy-to-understand explanations about meteorological concepts, from jet streams to tornadoes and El Niño. Inside, you find experiments and activities you can do at home, plus insight on smog, the greenhouse effect and more ..... **WIE WXFORDUMMIES $21.99**

ARRL Weather Satellite Handbook

Types of satellites currently in orbit and how they operate. How to buy or build receivers and antennas. How to build an interface to view images received from satellites or shortwave WEFAX on a PC.

ARR 4483 $20.00

GENERAL / MISC INFORMATION

Pocket PC REF, 13th Edition

A concise IBM PC and compatibles computer reference book containing hard to find information and an extensive 3700 name PC Industry phone book.

Includes: Troubleshooting; Wiring; Connectors and Pinouts; WinXP/2000/UNIX Commands; Startup Programs and Processes; Network Wiring and Standards; File Name Extensions; Over 1,000 acronyms and definitions; CPU Processor Specs and Identification; Specs, Configurations and Updates for 1000's of Hard, CD-ROM, Magneto Optical, Tape and Floppy Drives; Audio, POST and HTTP Error Codes; DOS Command References; ASCII Codes and Numerics; PC phone; Country domain names; more!

SEQ POCKETPCREF $15.99

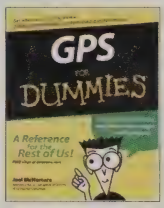
GENERAL / MISC INFORMATION

Pocket REF, 3rd edition

Chapters on air and gas, carpentry, chemistry, computers, electricity, math, hardware, plumbing, steel and materials surveying, welding, general information and more. Thousands of updates and many new sections like mileage charts. Everything you need to know.

SEQ POCKETREF $12.99

GPS for Dummies

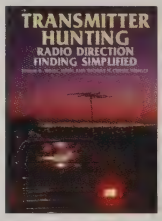


Make the most of your portable GPS gadget and all its amazing features. Pick the right receiver for you, create a map from your front door to the relatives six states away, venture into new places with confidence, explore the popular new treasure hunting sport called *geocaching* and much more.

WIE GPSDUMMIES $21.99

OTHER PUBLICATIONS

Transmitter Hunting



Practical and fun! Locate radio frequency jammers, other malicious interference and downed aircraft. Do "T-hunting," "Fox Hunts" and help search/rescue. Getting started, equipping a vehicle, hunting techniques, antennas, RDF skills and more.

ARR 2701 $24.95

Software Library for Hams CD-ROM, Version 1.0.

Contains software for a wide variety of ham radio applications and a selection of articles from QST.

ARR 9620 $19.95

MFJ Publications

30	Golden Classics of Yesteryear	**$14.95**
33	Modern Amateur's Mobile Handbook	**$14.95**
36	Shortwave Listener's Guide	**$12.95**
37	Ham Radio Communications Circuit files	**$12.95**
38	Easy-Up Antennas	**$19.95**
3301	Trouble Shooting Antennas & Feedlines	**$14.95**
3302	73 Dipole & Longwire Antennas	**$14.95**
3303	73 Vertical, Beam & Triangle Antennas	**$14.95**
3305	Antennas and Transmission Lines	**$19.95**
3502	Solid State QRP Projects	**$12.95**
3506	Ferromagnetic Core Design & Apps	**$19.95**
3507	Practical RF Design Manual	**$19.95**
3509	Ladder Crystal Filters	**$19.95**

Monthly Magazines (Current Issues Only)

CQ Magazine		**$4.99**
	CQX CQ	
Monitoring Times		**$5.95**
	GRV MONITORTIMES	
Nuts and Volts		**$5.50**
	NUT NUTS&VOLTS	
Popular Communications		**$4.99**
	CQX POPCOMM	
QST Magazine		**$4.99**
	ARR QST	

Cobra CB Radios

19DX IV **Compact 40 channel Mobile CB Radio** New compact design; Full function LCD display; Instant channel 9/19; RF gain/squelch control; Combination S/RF meter; Channel Indicator; TX indicator; CB/PA switch; Mobile bracket. Dim: 4.5"w x 1.75"h x 7.25"d; 2.1 lbs..... **$49.99**

20XTR **Xtreame Street Communicator 40 Channel CB Radio** – Neon blue front panel illumination and antenna that illuminates on transmit. LED display; 4W (AM) output; CB/PA switch; Front dynamic microphone jack. Includes mag-mount antenna and mobile mounting hardware. Dim: 6.25"w x 1.75"h x 6.5"d; 2 lbs... C/O **$69.99**

25LTD **AM Mobile CB Radio** – 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 8.6"d x 6.3"w x 2.2"h; 4 lbs **$89.99**

25WXNWST **AM Mobile CB Radio** – Same as LTD but with NightWatch™ & Weather **$109.99**

29LTD **AM Mobile CB Radio** – Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/RF/SWR meter. Dim: 8.6"d x 6.2"w x 2.2"h; 4 lbs **$99.99**

29NW **AM Mobile CB Radio** – Same look and basic features as the 29LTD but no Delta tune; Includes **NightWatch™** fully illuminated display; Variable dim control; Tone control; Instant channel 9/19. Dim: 8.6"d x 6.3"w x 2.2"h, 4 lbs .. **$119.99**

29WXNW ST **AM Mobile CB Radio** – Same look and basic features as the 29NW but: has **SoundTracker™** system, 7 NOAA weather channels with Weather Alert tone..... **$129.99**

148GTL **40 channel AM/SSB CB Radio** – Full featured, 4 full Watts (AM) and 12W (SSB) RF power. Dual conversion AM receive; Adjustable Dynamike; Illuminated S/RF/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator; Digital LED readout; PA. Dim: 2.3"h x 7.8"w x 9.2"d; 5 lbs **$149.99**

HH-ROAD TRIP **40 Channel CB Handheld** – Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. **SoundTracker®** system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" alkaline or NiCads or from vehicle battery with the included DC cord and plug. Includes magnet mount mobile antenna. Dim: 6.75"h x 2"w x 1.75"d **$79.99**

75WX ST **Compact/Remote CB Radio** – 40 CB channels and 10 Weather channels. A remote box installs out of sight and connects to the microphone with controls and full featured LCD display. Dual watch and full channel scan; Instant channel 9; Four memory channels; Key lock. Dim: 4.2"h x 2.7"h x 1.8"d; 1.85 lbs..... **$99.99**

RECOMMENDED CB ANTENNAS

COBRA

HGA-1000 – Base loaded magnet mount mobile antenna with coax and connector..... **$19.99**

HUSTLER

HQT – A 55 in. top loaded whip with Mirror Mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil. **$27.99**

HQ-27M – A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil..... **$36.99**

1C-100 – 44 in. base loaded magnet mount antenna (white color)..... **$19.99**

1C-11B – 42 in. base loaded trunk mount antenna (black color) **$13.99**

LARSEN

NMO-27C – Base loaded mobile, less mt. **$32.99**

NMO-TLP – Low-profile trunk mount for the NMO-27C. 17 ft. coax and PL-259 ..... **$29.99**

NMO-MMR – Magnet mount for NMO-27C. Comes w/12 ft. coax & PL-259 ..... **$32.99**

MIDLAND

18-258 – Through Window Mount Mobile CB Antenna. Power transfers thru-the-glass to outside element without wires. Overall length: 25-1/4 in. Includes coax cable & SO-239 connector ... **$19.99**

SOLARCON

A-99 – Base Antenna. Three-piece fiberglass design uses a 1/2-wave over a 1/4-wave section. Tunable, 3dB gain. Length: 17 ft. 8 in..... **$79.99**

GPK-1 – Ground plane kit for the Solarcon A-99 antenna. Adds 30% more power gain and produces a lower angle of radiation **$59.99**

WILSON

W-1000 – 5 ft. base loaded mobile antenna. Available in three mount configurations. All come with 18 ft. cable and PL-259 connector.

ROOF – thru-hole mount **$59.99**

TRUNK – mount..... **$66.99**

MAGNET – mount..... **$76.99**

LITTLE WIL – 38 in. base loaded magnet mount antenna **$39.99**

uniden CB Radios

PC-68XL **40-Channel CB Radio** – Front microphone jack; Backlit controls; S/RF meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 7.6"w x 8.9"d x 2.6"h; 3 lbs ... **$74.99**

PC-68LTW – Same basic features as the PC68XL but with NOAA weather and alert **$79.99**

PC-78XL **40 Channel AM Mobile** – PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED Dim: 7.25"w x 8.63"d x 2.38"h; 4 lbs. 3 oz. **$94.99**

PC-78LTW – Same basic features as the PC78XL but with NOAA weather and alert **$99.99**

PC-78 ELITE **40-Channel CB with Ergonomic Pistol Grip Microphone** – Combines CB and a 7 channel Weather Radio with alert. Enhanced night vision display; Instant Channel 9; S/RF/SWR meter; RF and microphone gain; Delta tune. Switches for: S/RF/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control. Dim: 7.6"w x 8.9"d x 2.6"h; 4 lbs. 3 oz ... **$119.99**

PC-68 ELITE **40-Channel CB** – Same looks and features as PC-78 Elite but no Delta tune and SWR. Dim: 6.2"w x 5.4"d x 2.1"h; 3 lbs. 11 oz ... **$99.99**

PRO-510XL **Compact 40 Channel AM Mobile** Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/RF LED meter. Dim: 4.5"w x 1.4"h x 7.5"d; 3 lbs.... **$39.99**

PRO-520XL **Compact 40 Channel AM Mobile** Looks like 510XL. Instant channel 9 access; 4-segment S/RF meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter. Dim: 4.5"w x 6.8"d x 1.38"d; 1 lbs. 10 oz .. **$54.99**

PRO-538W **40 Channel AM Mobile** – Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker. Dim: 6.8"h x 2"w x 8.3"d; 2.6 lbs..... **$59.99**

uniden

MARINE RADIOS

ATLANTIS-250 Handheld 2-Way VHF Marine Radio All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability **$99.99**

VOYAGER Ultra Compact VHF Handheld Marine Radio – All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus™; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8"h x 2.4"w x 1.3"d; 8.8 oz. **$169.99**

MHS-350 Handheld Marine 2-Way VHF Radio – All USA/international and Canadian marine channels All N.O.A.A. weather channels with weather alert; S.A.M.E. (during a NOAA weather or emergency alert, a code will alert you to severe conditions in your immediate area); 1/5W output; Triple Watch Plus™ (monitor channel 16/9, another user selectable channel, plus WX alert); Large backlit LCD; Rubber grips and seal. Meets JIS7 waterproof specifications **$149.99**

MYSTIC VHF Marine Handheld with GPS/DSC 5 Watts output; Integrated mapping WAAS GPS allows send, receive and mark directly on a map for accurate vessel or individual positions. Includes CD of all U.S. street data (up to 32MB can be loaded at any given time); Large VGA display for all charting, mapping and radio functions; Fully submersible construction; Supplied with Li-ion battery, AC/DC chargers and charging cradle. Dim: 6.9"h x 2.6"w x 1.4"d ... **$299.99**

SOLARA-DSC 25W VHF Marine Radio – Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector **$99.99**

OCEANUS-DSC Full Featured VHF Marine Radio – Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ – monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation..... **$139.99**

UM-525 25W Marine VHF Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring and NOAA emergency/weather alert with S.A.M.E. Bright 3 in. (diagonal) backlit LCD display; Built-in 30W loud hailer with intercom, PA and all preprogrammed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with DSC polling capabilities; Speaker microphone with one-touch channel 16/9 key and up/down channel select..... **$199.99**

UM-625C 25W VHF Marine Radio with Loud Hailer – All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring; and NOAA weather alert with S.A.M.E. Bright 2.2 in. (diagonal) daylight viewable Color TFT display that is viewable from any angle in sunlight. Rugged construction and highest rated receiver performance (85dB intermod nom.); built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with all DSC polling capabilities; Speaker mic. with one-touch channel 16/9 key and up/down channel select..... **$299.99**

ICOM MARINE RADIOS

IC-M302W02 VHF Marine Transceiver – All International, USA, Canadian and WX channels and alert; Instant channel 16; 25W or 1W output; Dual/tri-watch; GPS connection; Large backlit LCD shows channel numbers and names up to 10 characters; Built-in DSC capability (send a formatted distress message); High sound pressure speaker; External speaker connection; Rugged, waterproof (JIS Grade 7); Includes hand microphone, mounting bracket kit and DC power cable. Dim: 6"w x 2.6"h x 5.2"d; 1.8 lbs..... **$159.99**

M-710 Marine SSB Transceiver – Rugged, 150W, 136 channels, 160 programmable memories. PC programmable; Large LCD with alphanumeric readout. General version without 2182 kHz alarm, marine bands only ..... Special Order **$1399.99**

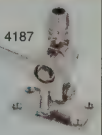
M-802 Marine SSB Transceiver w/DSP – Large backlit Dot Matrix LCD. Built-in digital selective calling, one-touch e-mail and GPS input. RX: 0.5–29.99 MHz; TX: 6–2.99, 4–4.99, 6–6.99, 8–8.99, 12–13.99, 16–17.99, 18–19.99, 22–22.99, 25–27.5 MHz. Modes: J3E (SSB), J2B (AFSK), F1B (FSK), A1A (CW), M3E (AM, RX only). 1355 channels; 20/60/150W output. Dim: 9.2"w x 3.7"h x 9.1"d; 10.3 lbs. Control: 8.3"w x 4.4"h x 3.1"d; 1.2 lbs ..... Special Order **$1749.99**

IC-M32 VHF Marine Handheld All US, Canadian, international and WX channels with alert. Normal & priority scan; "Tag" scan system; 5 Watts; RX: 156.05-163.275 MHz, TX: 156.025-157.425 MHz; Dual/tri-watch; 7.2V 750mAh Ni-Cd battery; PC programmable. Dim: 2.4"w x 5.3"h x 1.6"d; 12.7 oz **$149.99**

IC-M72 Marine VHF Handheld More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. Large capacity 2000mAH Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.06"w x 4.90"h x 1.8"d; 9.9 oz..... **$199.99**

AES
Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

Shakespeare®



MARINE ANTENNAS

4187 Ratchet Mount – Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads..... **$39.99**

396-1 Center-fed 1/2-wave Coaxial Sleeve Antenna – A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount..... **$79.99**

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna – Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259... **$79.99**

5101 Centennial™ End-fed Antenna with Matching Stub – High-end features in an 8 ft. antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. Rated 50W, 5 MHz bandwidth with 6dB gain. One section; Brass and copper elements; Chrome-plated brass ferrule with standard 1 in. x 14 thread. Includes 15 ft. RG-58 cable with PL-259 connector. Use with 4187 ratchet mount **$69.99**

5206-C End-fed Antenna, Matching Stub – Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount..... **$59.99**

5202 Collinear-phased 5/8 Wave Elements – A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount **$99.99**

5215 Squatty Body™ VHF Marine Antenna – A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount..... **$49.99**

MIDLAND

NT-1

NAUTICO™1

VHF Marine Handheld

Closeout **$59.99**

Features:

- 88 Channels: USA, Canada and International
- 10 NOAA Weather Channels
- 5W power; up to 14 mile range
- Channel 16 Emergency button
- Auto-Squelch
- Scan • Monitor • Dual watch • Call Alert
- LCD Display • Keypad lock
- Battery level indicator • Powered by 4 AA batteries • Includes watertight bag
- Dim: 4.8"h x 2.3"w x 1.5"d; 4 oz.

AVP-5 Accessory kit – Includes Microphone headset, Rechargeable NiMH battery, AC and DC adapters, mount and holder.. C/O **$29.99**

AIRCRAFT RADIOS

ICOM

A-24LI Airband HT – Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz, Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA marine weather channels. Record and play back conversations with the built-in recorder. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes 7.4V 1800mAh Li-Ion battery pack.
Dim: 2.1"w x 5.1"h x 1.4"d; 15.2 oz... **$379.99**

YAESU

VXA-710 Airband Transceiver

VOR and CDI display with OBS on NAV. RX: Airband 108-137 MHz, NAV 108-118 MHz, FM broadcast 88-108 MHz, US BRS band with CTCSS/DCS, NOAA weather with NOAA severe weather alert. Full 5W TX output power (1.5W carrier); 160 memory channels; Large, bright screen with signal strength indicator. Multi-color strobe LED for status indication and emergency light. Totally waterproof and submersible. Dim: 2.25"w x 3.75"h x 1.25"d and weighs 9.9 oz. Includes Li-ion battery pack, wall charger, antenna, and headset cable..... **$399.99**

FRS RADIO No license required – perfect communications for Sportsman, Families, Clubs, Hobbies, Boating, Camping, Fishing, Hunting.

GMRS RADIO License required – immediate family members are eligible to operate under the license. Others (your employees, friends, associates, etc.) must each obtain a license before they can operate in the GMRS, even if they are just operating one of your own radios.

MIDLAND

GXT-650VP4 FRS/GMRS Handhelds – 22 channels (7 FRS/GMRS, 7 FRS and 8 GMRS) and including Weather Alert Radio with automatic alert for severe weather and hazard information, 24/7. Maximum FCC allowable 5 Watts of power for up to 16 mile range in open areas with little or no obstructions. Selectable Hi/Med or Low power settings. 121 Privacy Codes and 5 Call tones; Animal Call Sounds for Deer, Turkey, Goose, Owl and Duck; Backlit Display; eVOX; Vibrating Alert; Channel Scan; Silent operation turns off tone for quiet operation; (Auto) Squelch; Keypad Lock; Monitor; Microphone and Headphone Jacks; Water Resistant; Auto Battery Save; Battery Low Indicator; Roger Beep. Operates on 4 "AA" batteries (not included). Dim: 4.12"h x 2.37"w x 1.37"d. Pair of Radios including Microphone Headset **$89.99**

LXT-210VP GMRS Handhelds – 22 channels (7 FRS/GMRS, 7 FRS, 8 GMRS). Channel Scan; Stealth (Auto) Squelch; Silent Operation; Keypad Lock; Call Tone; Mic and Headphone Jacks; Water Resistant; Roger Beep; Channel Scan; Auto Batt. Save. Comes with rechargeable NiMH battery packs and AC plug-in charger..... Closeout PAIR **$44.99**

ICOM

IC-F21GM FRS/GMRS Radio

15 channels, 7 shared FRS channels. Power: 4W with range up to 5 miles depending on operating environment. All channels are pre-programmed allowing out-of-box operation, only a simple license required. Dim: 2.1"w x 5"h x 1.5"d, 10.6 oz... each **$129.99**

News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather, Racing and more! A selection of Handhelds, Base/Mobiles to fit your needs.

uniden Bearcat Compact Handheld Scanners

BC-72XLT Compact Handheld Scanner (Great for NASCAR) – 100 Channels/10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; 2 AA battery operation: Alkaline or rechargeable (charges while in the scanner). Dim: 2.75"w 4.5"h x 1.75"d; 6 oz..... **$99.99**

BC-92XLT Handheld Scanner with 800MHz Coverage – 200 Channels/10 Banks; Covers the "action" bands 25-54, 108-174, 406-512, 806-956 (excluding Cellular); 10 Programmable Search Ranges; 6 Preprogrammed Service Searches; Close Call™ RF Capture Technology; Priority Scan; Delay; Backlit Display. Dim: 2.75"w x 4.5"h x 1.75"d; 6 oz..... **$119.99**

BC-246T Handheld Scanner – 1600 Channels typical/2500 maximum; TrunkTracker III Technology (Motorola, EDACS and LTR systems); Covers 25-54, 108-174, 216-225, 400-512, 806-956 & 1240-1300 MHz (excluding Cellular); Dynamically Allocated Channel Memory makes It easier to program and use without wasting channels; Close Call™ RF Capture Technology; Alpha Tagging for Systems, Channel Groups, Channels, Search Ranges, and SAME Groups; S.A.M.E. Weather Alert (Specific Area Message Encoding) – during a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; 10 Custom Search Ranges; Preprogrammed Service Searches; Automatic Repeater Reverse automatically tunes to the Repeater Output Frequency when It finds a transmission on a common Input frequency; DCS/CTCSS; Rapid Decode instantly detects and displays the Subaudible Tone; Pager Skip eliminates transmissions on common pager Frequencies during Search and Close Call Operation; Channel Alert indicates when specified channels become active; Backlit Display adjustable to turn on when Squelch opens, or any key is pressed (or Manually); PC Control: includes a PC Cable to transfer information from your computer to scanner. Dim: 2.5"w x 4.5"h x 1.75"d; 6 oz..... **$229.99**

BR-330T Racing Sport Handheld Scanner with Race Track Operation – Coverage: 1 MHz to 1.3 GHz (excluding Cellular); 2500 Dynamically Allocated Channels; Preprogrammed Coverage of Over 400 Cities; TrunkTracker III (EDACS, MOTOROLA, E.F. JOHNSON); Race Track Operation for easy programming and selection of the race and drivers you want to listen to; Close Call™ RF Capture Technology; Search with Scan; DCS(104)/CTCSS(50) Rapid Decoding; Fire Tone-Out; Extended Quick-Key Operation; Alpha Tagging; Built-In Bar Antenna For AM broadcast. Dim: 2.4"w x 5.35"h x 1.22"d; 0.6 lbs **$279.99**

BCD-396T Compact Scanner – Continuous Band Coverage 25 MHz to 1.3 GHz (excluding UHF TV and Cellular); 6000 Dynamically Allocated channels; 400 cities preprogrammed; TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Close Call™ RF Capture Technology; S.A.M.E. Weather Alert; Fire Tone-Out; Alpha Tagging; 100 Quick Key System; Audio AGC; Automatic Digital Threshold; Search with Scan; DCS/CTCSS Rapid Decode; PC Control (Software Included). Dim: 2.4"w x 5.35"h x 1.22"d; 0.6 lbs **$549.99**

SC-230 Racing Sport Handheld Scanner with Race Track Operation – Covers: 25-54, 108-174, 216-225, 400-512, 806-956, 1240-1300 MHz (excluding Cellular); 1600 Channels/2500 maximum; Dynamically Allocated Channel Memory; Race Track Operation; Close Call™ RF Capture Technology; Alpha Tagging; Quick Key System Access; S.A.M.E. Weather Alert; 10 Programmable Search Ranges; 11 Preprogrammed Service Searches; Priority Scan; Attenuator cuts down on interference from strong, nearby signal sources; Delay; Backlight on Squelch; 2 AA battery operation, Alkaline or rechargeable (batteries can be charged while in the scanner); PC Interface provides both programming and remote control of scanner features from a PC (software included); On-Air Programming (separate transmitter required) makes programming multiple units a snap – just transmit the driver information using a PC and transceiver, and all scanners update at once. Dim: 2.9"w x 4.6"h x 1.4"d; 7.8 oz..... **$199.99**

uniden Base/Mobile Scanners

BC-340CRS CRS Clock Radio Scanner with 100 Channels in 10 Banks – Covers: 25-54, 108-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Radio; Alarm Clock with Snooze; Public Safety Scanner..... **$99.99**

BC-370CRS CRS Clock Radio Scanner with 300 Channels in 10 Banks Covers: 25-54, 108-174, 225-380, 406-512 MHz, 806-956 MHz. All Hazard alert; Atomic Clock; Service Search; Weather Scan; TV Audio 2-13; AM/FM Radio; Alarm Clock w/Snooze; Pubic Safety Scanner..... **$139.99**

BC-350C 800 MHz Base and Mobile Scanner Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; luminescent backlit LCD screen. Includes mounting bracket, AC adapter, DC power cable and vehicle power plug. Dim: 5.2"w x 1.6"h x 6.5"d; 1.6 lbs..... **$99.99**

BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state; 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD. Dim: 7"w x 2.5"h x 6"d; 4.9 lbs **$179.99**

BCT-15 BearTracker™ Mobile Trunking Scanner with GPS Support – Alerts you to activity on Highway Patrol link frequencies within about 3 miles of your location. Close Call™ RF Capture Technology - tunes to signals from nearby transmitters. 2500 Dynamically Allocated Channels; Up to 400 Systems; 100 System Quick Keys; TrunkTracker III - EDACS, MOTOROLA, E.F. JOHNSON; Location-Based Scanning; Temporary Lockout; Dangerous Crossing, Dangerous Road and POI Alert; Public Safety Scanner **$239.99**

uniden

BC-898T 500 Channel Base/Mobile Scanner TrunkTracker III; Coverage: 25-54, 108-174, 216-512 and 806-956 MHz (excluding cellular); 10 banks/50 channels; AutoStore; TrunkTracking™ (Motorola, EDACS & LTR); 1000 talk group ID's (10 lists/10 Banks); DCS/CTCSS; Conventional and trunked search operations; Programmable search and delay; Weather channels with S.A.M.E. alert; Priority scan. Includes AC adapter, DC Power Cable with auto power plug.
Dim: 10.5"w x 7.3"d x 3.5"h; 3.8 lbs..... **$209.99**

BCD-996T Mobile Trunking Scanner with GPS Support & APCO-2500 – 6000 Dynamically Allocated channels; Location-Based Scanning; APCO-25 Digital; 100 System Quick keys; Dual-Color Display; Temporary Lockout; Dangerous Crossing, Road and POI Alert; DIN-E Mounting; Multi-Site Trunking support; Close Call™ RF Capture technology; Public Safety scanner.
Dim: 7.2"w x 5.9"d x 2.2"h; 3.4 lbs **$549.99**

BC-796D APCO P-25 Digital Capable Scanner Continuous coverage 25–512 and 806–1300 MHz (less cellular) with full-frequency display. 1000 channels/10 banks, 10 priority; AM/FM/WFM modes; Weather/S.A.M.E. alert; TrunkTracker III (EDACS®, Motorola®, LTR, APCO); CTCSS/DCS decode; Digital operation, 9600b C4FM & CQPSK; Control channel only mode; 12 service searches; Alphanumerics; PC control & programming (CD-ROM included); Includes mobile bracket, AC adapter, DC Power Cable & vehicle power plug.
Dim: 7"w x 2.4"h x 6.5"d; 3.2 lbs.... C/O **$499.99**

ALINCO WIDE BAND RECEIVER

DJ-X7T "Credit card" Size Receiver – Catch the action on fire, public safety, traffic and more, or enjoy music and news on radio or TV stations with this shirt-pocket radio. Receives 100 kHz to 1.3 GHz (cell blocked); Triple conversion AM/NFM, double conversion WFM; 1000 memories; Five operating modes: Preset, programmed, memory, VFO and scan; Lithium-ion battery pack; 39-tone Tone squelch; Attenuator (approx 20db); Auto-Power-Off; Battery-save; Priority receive; Monitor/Mute; Memory-save; Cable-clone; Key-lock; Pager function alerts you with a beep and an icon when a signal is received; Illuminated LCD; Key-touch beep on/off switch.
Dim: 3.7"h x 2.2"w x 0.57"d; 3.62 oz..... **$169.99**

ICOM MAIL IN REBATES MAY APPLY

ICOM HANDHELD RECEIVERS

R-3-26 R-5-06 R-20-06

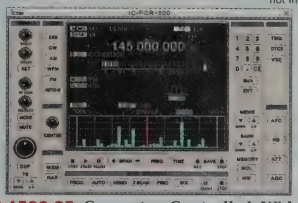
R-3-26 Communications Receiver – Provides wideband capability from 0.5 to 2450 MHz (cellular blocked). Includes 450 alphanumeric memories. CTCSS. Features a 2 in. TFT color display (or switch to mono color for up to 27-hours of operation). Receive favorite TV shows, scan for wireless cameras like those in race cars. Use as a monitor with a wireless camera. Display to a large monitor or recording device with A/V output. Signal strength and band scope functions assist in finding the action. PC programmable; Li-ion rechargeable battery.
Dim: 2.4"w x 4.72"h x 1.28"d; 10.6 oz.... **$344.99**

R-5-06 Super Wideband Handheld Receiver Covers 495 kHz to 1309.995 MHz (cell blocked), AM, FM, WFM modes. Preprogrammed TV and shortwave memories. Listen to AM/FM broadcast radio, police, fire, military, aircraft, amateur bands, and more. Weather alert. Crisp audio. Large, backlit LCD shows frequency, operating and battery status, signal strength and alphanumeric naming of 1250 memories (200 auto-write scan and 25 scan edge pairs). DMS; CTCSS/DTCS; Internal bar antenna; PC programmable; Cloning; Weather resistant; Rechargeable NiCad and external DC power in jack.
Dim: 2.25"w x 3.4"h x 1"d; 6 oz..... **$199.99**

R-20-06 Wideband Handheld Receiver Hear AM/FM radio and TV broadcasts, wireless communications for boaters, aviation, conventional public safety and many other commercial services. Covers 0.15 to 3304.99 MHz (cellular blocked). SSB/CW/AM/FM/WFM modes; Preset TV sound and shortwave frequencies; 1250 memories (1000 memories, 25 scan edge, 200 auto-write scan); Multiple scan functions (100 channels/second high speed scan capability and Voice Scan Control); Voice Squelch Control opens squelch only when a modulated signal is detected; Dual watch receive; Built-in IC audio recorder with recording time up to four hours; Auto squelch and squelch monitor function; CTCSS/DTCS/DTMF decode; RF gain control and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset monitor capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; Li-ion rechargeable battery provides up to 11 hours continuous receive.
Dim: 2.28"w x 5.5"h x 1.22"d..... **$509.99**

R-75 HF + 50 MHz All Mode Communication Receiver – Covers 0.03 to 60 MHz in USB, LSB, CW, RTTY, AM, S-AM and FM modes with 101 memory channels. Conventional tuning plus direct input via keypad. High stability and superior dynamic range. Alphanumeric readout with digital bar S-meter; Digital signal processing (DSP); Two-level preamp; Noise blanker; Synchronous AM detection; Twin passband tuning; Front speaker; Record output and tape recorder activation jack; High and low impedance antenna inputs; Filter options. Operates from 13.8V DC or with supplied AC adapter.
Dim 9.5"w x 3.75"h x 9"d; 6.6 lbs **$599.99**

Wideband Radio on your PC!



PCR-1500-25 Computer Controlled Wideband Receiver/Scanner – Simple connection to your PC via a USB cable. Wide frequency coverage from 0.01-3300 MHz (less cellular). Modes of reception include AM, FM-Wide, FM-Narrow, SSB and CW. (CW and SSB up to 1300 MHz only). Up to 25 channel activities can be observed on the multi-channel monitor screen at a glance. Received audio can be stored on the PC with WAV format. Choose from three different screens: "Communications Receiver" (shown), "Component-style" and "Compact". Includes CTCSS/DCS, pocket beep, IF shift, auto memory write, AFC, AGC, weather alert, 24 digit DTMF tone decoder and up to 2700 memory channels per file. An optional plug-in DSP unit provides Noise Reduction and Audio Notch Filter. Includes AC adapter, whip antenna, USB cable and software CD. Dim: 5.75"w x 1.6"d x 8.1"d; 2.6 lbs... **$579.99**

R-1500-05 Same as PCR-1500-25, but with Remote Control Head **$699.99**

PCR-2500-25 – Simular to the PCR-1500-25, but features dual receive and is upgradable with the UT-122 digital decoder, UT-106 AF DSP unit and UT-108 DTMF decoder or UT-118 **D-Star** digital voice decoder **$849.99**

R-2500-05 – Same as PCR-2500-25, but with Remote Control Head..... **$999.99**

AOR

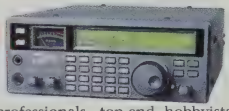
AR-8200 MK III-B
Compact Wideband Receiver

Covers 0.5–3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes and 1000 alphanumeric memories in 20 banks of 50 channels. Scans and searches at 37 steps per second. High stability TXCO; Dual VFOs and twin frequency readout; Alphanumeric display; Band scope; Bar signal meter; CTCSS decode; 20 second Record/Playback and voice inverter; Noise limiter; Attenuator; Computer control and programming capability. Includes: four NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM and telescopic whip antennas. Dim: 2.4"w x 5.7"h x 1.0"d; 0.75 lbs..... **$569.99**

AR-8600 MK II-B
Wideband Receiver

Extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Versatile band scope with save trace facility; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and detailed instruction manual.
Dim: 5.9"w x 2.2"h x 6.9"d; 4.9 lbs..... **$899.99**

AR-5000A+3B
Wideband Receiver



The choice for professionals, top-end hobbyists, government departments and armed forces for its amazing sensitivity and strong signal handing capability. Covers 10 kHz to 2.6 GHz (less cellular) in AM, FM-N, FM-W, LSB, USB and CW modes with 2000 multi-function memories in 20 banks of 100 memories. Six bandwidths of 3, 6, 15, 30, 110 and 220 kHz. Sophisticated multiple scanning functions. Noise Blanker, AFC and AM Synchronous Detection. Operates on 12-16VDC @ 1A. Dim: 8.5"w x 4"h x 10.2"l, 7.8 lbs ..... Special Order **$2599.99**

SDU-5600
Spectrum Display Unit

Operates with the AR-8600MKIIB and others with a 10.7 MHz I.F. Provides selection of center frequency, receive mode, etc. The high resolution, 5 in. color TFT display provides clear, crisp graphics. Built-in "waterfall" display function, FFT signal processing and analysis and DSP. Remote control via PC.
Dim: 8.7"w x 4.7"h x 7.7"d; 5.1 lbs..... **$1299.99**

YAESU

VR-5000
Multi-mode Scanning Receiver

Covers 100 kHz–2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumerics. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map. Dim: 7.1"w x 2.8"h x 8"d; 4.2 lbs .. **Call/Web**

VR-500

VR-120D

FRG-100B
High Performance Receiver

A high quality receiver covering 50 kHz–30 MHz in CW, SSB, AM (FM optional) modes with 50 tunable memories that store frequency, mode and filter information. Two addition memories for scanning band-edge information. Sixteen pre-programmed international bands. Multi-function scanning; SSB carrier offset; Selectable AGC; Noise blanker; All mode squelch; 12/24 hour clocks with timers; CAT system for PC control; Bright backlit LCD display; 120/240 VAC or 12-14 VDC. Dim: 9.4"w x 3.5"h x 9.5"d; 6.6 lbs C/O **$499.99**

VR-500 Mini-Receiver – Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF TV bands, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries. Dim: 4.2"h x 2.2"w x 1"d; 7 oz..... **Call/Web**

VR-120D Mini-Receiver – Covers 100 kHz to 1300 MHz (cellular blocked) in AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW, VHF/UHF TV, VHF AM aircraft plus commercial and public safety. 640 memories; Scanning; 4-button operation; AC or DC power with optional adapter cable. Dim: 3.3"h x 2.3"w x 1"d; 6.9 oz..... **Call/Web**

AES
AMATEUR ELECTRONIC SUPPLY

GRUNDIG GS350DL $99.99
- AM/FM/Shortwave (3000-28000 KHz)
- Analog tuner with LCD digital freq. readout
- Frequency lock feature, minimizes drift
- Exceptional sensitivity and selectivity
- Clock with selectable 12/24 Hr.
- Wake-up timer with snooze
- Power failure backup
- Main and fine tuning knobs
- Variable RF gain control knob
- Jacks for supplementary antennas

GRUNDIG G1100 $49.99
- AM/FM and 10 shortwaves
- Analog tuning with digital frequency
- Digital clock, sleep function, snooze

GRUNDIG G5 $149.99
- AM/FM-stereo/LW and full shortwave coverage
- PLL dual conversion AM/SW circuitry with SSB
- 700 programmable memory presets
- Clock, sleep timer and alarm
- World time zone selection
- Stereo earphone and line out sockets
- Socket for external shortwave antennas
- Internally recharges Ni-MH batteries (not included)

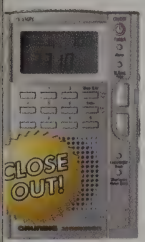
GRUNDIG GM300 $29.99
- AM/FM/7 Shortwave bands
- Clock, alarm and sleep timer
- Rotary volume control

The Grundig Line by Etón

etón
RE-INVENTING RADIO
www.etoncorp.com

G-2000A Porsche Design Shortwave Radio
Designed for Grundig by F.A. Porsche. This radio has a titanium finish look with a genuine leather case that closes around the radio like a book and serves as a stand. Coverage: AM (530–1710 kHz), FM (87.5–108 MHz), SW (2.3–7.4 and 9.4–26.1 MHz). FM-stereo to the earphone jack. Tunes via up/down buttons, autosearch, direct keypad entry or 20 memory presets. Illuminated multifunction LCD display; 12/24 hour clock with alarm and sleep timer; Lock button; Stereo/Mono switch; Earphone output and 4.5 VDC input jacks. Includes real leather case, stereo earbuds and shortwave guide. Uses 3 "AA" batteries. Dim: 5.5"w x 3.5"h x 1.25"d; 11.5 oz... C/O **$69.99**

S-350DL Deluxe – A single conversion analog receiver with digital frequency display. Covers continuous SW from 2.9-27.4 MHz and 13 SW bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75, 90 and 120 meters). Great sound from the 4 in. speaker. Wide/Narrow switch; Sleep timer; Telescopic SW/FM antenna and AM ferrite bar antenna; Inputs for FM and AM/SW wire antennas; Stereo line outputs and a stereo/mono switch; Stereo earphone jack for private listening; Carrying handle. Requires (4) D cells, includes an AC adapter.
Dim: 10.5"w x 6.5"h x 3.5"d; 3 lbs..... **$99.99**



YACHTBOY 550
High Performance Receiver
Coverage: AM/FM and shortwave (1.711–29.999 MHz). FM-stereo reception via the earphone jack. Tuning via direct keypad entry, up-down buttons, scroll wheel, autoscan or 200 memory presets. Illuminated multi-function LCD; Digital clock with alarm and snooze; Signal strength and battery indicators; Telescopic and internal bar antennas and external antenna jack. Includes earbuds, stand, carrying case, three "AA" batteries and shortwave guide. Dim: 4.5"w x 6.5"h x 1.5"d; 10 oz. Closeout **$79.99**

E-5 World Class Portable Radio – Coverage: AM/FM (stereo via earphone jack) and SW (1.711-29.999 MHz). Tunes via auto-scan, manual scan, conventional knob or direct keypad entry. Dual conversion, includes SSB reception and 700 memories with memory scan and auto tuning storage. LCD display with three illumination modes; 24 hour clock with alarm and sleep timer; Local/DX Switch; Wide-Narrow selectivity; external SW antenna jack. Powered by (4) alkaline or Ni-MH batteries (not supplied) or with the supplied AC wall adapter which will also recharge the Ni-MHs while in the radio. Includes: owner's manual, wrist strap, protective case, wire antenna and ear buds. Dim: 6.68"w x 4.13"h x 1.13"d; 12.2 oz..... **$149.99**

E-10 Portable Digital Radio – Coverage: AM/FM (stereo at earphone jack) and SW (1711 kHz to 29.999 MHz). Tunes via: manual tuning; direct keypad entry, scanning or keypad. Store up to 550 stations or use the ATS (Auto tuning system) for automatic memory storage of AM/FM stations. New "IF Set" feature shifts the radio's IF to minimize interference during SW reception. Built-in 24-hour digital clock with two turn-on timers and sleep function. Operation may be programmed to personal preferences and geographic location. Backlit LCD; AM 9/10 kHz and SW 1/5 kHz steps; Wide/narrow bandwidth; Fast/slow manual tuning; Hi/low tone control; External antenna jack; Flip stand; Antenna trimmer optimizes antenna. Uses (4) supplied rechargeable Ni-MH "AA" batteries (can be charged inside the radio. Includes, wrist strap, protective case, wind-up antenna, AC adapter and stereo ear buds. Dim: 7.5"w x 4.5"h x 1.2"d; 1.3 lbs. C/O **$129.99**

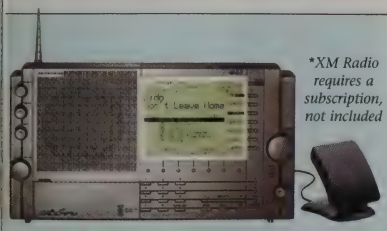
E-100 Compact Portable Digital Radio
Coverage: AM (530 to 1710 kHz), FM (87 to 108 MHz) and Shortwave (1.7 to 30 MHz). FM-stereo at earphone jack. Tunes via keypad entry and stores up to 200 of your favorite stations. Operation may be programmed to personal preferences and geographic location. Built-in digital clock with dual timers and snooze. Stereo/Mono switch; Tuning bargraph; Backlit LCD; Earphone jack; 3.0 VDC input jack; Flip stand. Includes wrist strap, protective case, (2) "AA" batteries and stereo earbuds. Dim: 4.75"w x 3"h x 1.1"d **$99.99**

FR-200 Emergency Radio – An analog portable that receives AM (530-1710 kHz), FM (88-108 MHz) and two shortwave bands. Features smooth, precise analog tuning with a concentric fine tune knob. Operates from a built-in wind-up generator charging the supplied NiMH cells, 4.5 VDC or (3) AA cells. Cranking the generator for 90 seconds will give one-hour of operation. Built in 2.5 in. speaker, mini-earphone jack, emergency light and padded carry handle. Includes a canvas carry case with shoulder strap. Dim: 6.75"w x 5.75"h x 2.12"d; 10 oz **$39.99**

FR-250 Emergency Radio – Receives AM (530-1710 kHz), FM (88-108 MHz) and 7 shortwave bands. Powered from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, emergency siren and cell phone charger. Main tuning knob with a precise fine-tuning control. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar..... **$49.99**

FR-300 Emergency Radio – Looks, features and functions same as the FR-250. Does not cover SW bands but includes TV-VHF audio channels 2-13 and 7 NOAA weather channels with WX Alert... **$49.99**

FR-400 Emergency Radio - An affordable portable that receives AM (530-1710 kHz), FM (88-108 MHz), VHF TV audio and 7 NOAA weather channels. Versatile – powered from the crank generator which charges the supplied NiMH cells, (3) AA cells (not supplied) or 4.5 VDC from the included 120V AC adapter. Cranking at two turns per second for 90 seconds will provide 40-60 minutes of operation. Built-in the side of the radio is a triple LED light. Two white LEDs provide illumination, and a blinking red LED is for signaling. Additionally, there is a loud siren function. Three rear panel jacks are provided for earphone output, 4.5 VDC input and phone charger output. The FR-400 has the additional capability of recharging certain cell phones using several included common cellular power adapters. Includes a black canvas carry case, AC adapter, owner's manual, mini Red Cross Disaster Preparedness Guide. Dim: 8.7"w x 4.5"h x 2"d; 1.3 lbs **$59.99**



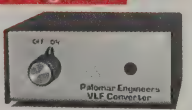
**XM Radio requires a subscription, not included*

E-1 AM/FM/SW and XM Satellite Radio

Covers 100 kHz–30 MHz LW, MW, SW & FM (88-108 MHz) in AM, FM, SSB/CW modes, plus **XM Satellite Radio*** providing over a 100 channels of Music, News, Talk, and Sports programming. Dual conversion with digital PLL tuner and synchronous detector. Variable rate tuning knob, Direct keypad, Up/down buttons or Auto-tuning, Memory scan of with 500 user programmable alphanumeric plus 1200 user definable memories. Illuminated, 5.5 inch dot-matrix display; LCD S-meter; I.F. passband tuning; Dual programmable clock (WWV auto-setting); On/off timers; Stereo at headphone jack. Uses (4) "D" batteries or included AC adapter. Dim: 13.1"w x 7"h x 2.5"d; 4.2 lbs..... **$499.99**

Palomar Engineers

VLF CONVERTERS



Receives and converts the 10 kHz to 500 kHz VLF band to tune in the 4 MHz range. Select model to tune on a General Coverage receiver or Ham Band transceiver. Uses 9V batt. Dim: 2"h x 4.25"w x 5"d.
VLF-A – For Ham band transceiver..... **$99.99**
VLF-S – For general coverage receiver ... **$99.99**

SANGEAN

A World of Listening

ATS-404 PLL Synthesized World Band Receiver Coverage includes AM (520-1710 kHz), 14 SW bands, or continuous 2.3 to 26.1 MHz tuning. Tune via Up-Down buttons; Automatic scan tuning; Keypad entry or the 45 Memory presets. Backlit LCD shows frequency or 12/24 hour clock-timer with alarm and snooze. Other: FM stereo with earphones, MW 9/10 kHz, low-battery indicator, lock; dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5"w x 4"h x 1.5"d; 10 oz..... **$79.99**

ATS-505 PLL Digital World Radio – Coverage: LW (153–279 kHz), AM (520–1710 kHz), SW (1711 kHz – 29.999 MHz) & FM (87.5–108 MHz). Tune via Manual tuning knob; Up-Down buttons; Automatic scan tuning; Keypad entry or from the 45 memories. SSB reception with fine tuning. Other features: Stereo via earphones, Auto Preset System, MW 9k/10k switch, lock, tone control, Local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, the ANT-60 wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5"w x 5.3"h x 1.6"d; 24 oz..... **$129.99**

ATS-606A ATS-909

ATS-606A PLL World Band Receiver – Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD; 54 memories; Scanning; Fine tuning; Dual digital clock-timer-alarm; FM stereo with earphones. Uses (3) "AA" batteries. Includes ANT-60 wind-up antenna, AC adapter and earbuds. Dim: 5.75"w x 3.5"h x 1.25"d; 1 lb..... **$139.99**

ATS-909 PLL World Band Receiver – Coverage: LW (153–519 kHz), MW (520–1710 kHz), SW (1711 kHz – 29.999 MHz) & FM (87.5–108 MHz). Tune via: Manual knob; Direct keypad entry; Auto scan. Manual up-down tuning or Memory recall. Wide/Narrow bandwidth switch and SSB /CW reception with fine tuning. Store 307 presets in Alphanumeric memories; RDS display of Station Name & Time. Other: MW 9k/10k switch; 12/24 hour time, (3) timers and sleep timer; Displays 42 city times; Recorder output. Uses (4) "AA" batteries. Includes AC adapter, ANT-60 wind-up antenna, stereo earbuds and carrying case. Dim: 8.5"w x 5.375"h x 1.375"d; 1.9 lbs . **$249.99**

German designed and radio engineered by Sangean.

PT-50 ProTravel World Receiver – This handsome ultra compact radio is for the globetrotting traveler. It features AM, FM, plus seven shortwave bands and FM Stereo reception with earphones. Two LCD window displays with built-in 12/24 hour clock that will wake you to radio or buzzer. Handy selector disc provides time in 24 world cities and your local time. Soft-leather case.Uses (2) "AA" batteries. Dim: 5"w x 3.4"h x 1.29"d; 9.5 oz ..... Closeout **$49.99**

PT-80 ProTravel – This great looking travel radio has all the features a traveler will ever need. AM, FM, Longwave, and continuous shortwave coverage from 1711 to 29,999 kHz with SSB capability. Five tuning methods: Direct frequency access, Auto scan, Manual tuning, Memory recall from 45 presets, and Rotary tuning. Built-in 12/24 dual world time clock with alarm, snooze, and sleep timer. Snap-on leather case, AC adapter, earphone, and SW antenna included. Uses (4) "AA" batteries. Dim: 7"w x 4"h x 1.0"d; 1 lb. 2 oz..... **$159.99**

RCR-2 Digital Atomic Clock Radio – A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5"w x 3"h x 5.25"d; 2 lbs..... **$69.99**

WR-1 High Fidelity Radio – This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The walnut and black cabinet will accent any room. Headphone, record out & 12VDC input jacks. Dim: 9.4"w x 4.4"h x 6.6"d; 5.18 lb..... **$119.99**

PR-D2
FM-Stereo/AM/TV Digital tuning Portable Receiver

A retro-1960's classic design with modern technology that come together in this stylish decorative portable/table-top radio. Attractive gold faceplate with simulated walnut exterior. Four tuning methods: Scan tuning, Rotary tuning, Manual tuning and 10 Memory preset tuning – also tunes TV channel audio. Clock feature with alarm. Rotary tuning knob, direct access buttons, and tone control. Full range 5 in. speaker, 1.5 in. tweeter and earphone jack. Beautifully crafted case with lighted display, illuminated presets. AC/DC, operates on 110VAC or (4) "D" batteries. Dim: 7.2"w x 5.1"h x 7.5"d; 4 lbs **$99.99**

DT-200V Broadcast and TV Band Receiver – Fits in shirt pocket or clips to belt. Covers AM and FM broadcast, plus audio from TV channels 2–13. LCD display, Up/Down tuning; 19 memories, Automatic shut-off; Built-in speaker; Stereo earphones. Uses (2) AA batteries. Dim: 4.375"h x 2.625"w x .75"d; 5 oz..... **$69.99**

ANT-60 – Portable, wind-up, shortwave antenna for use with most shortwave radios..... **$13.99**

SUPERADIO III™

High Performance, Long Range AM/FM Portable Radio

Loaded with features: Tuned AM/FM RF stages; Ceramic IF filter, 3 IF tuned circuits on FM; 4 IF tuned circuits on AM; Selectable normal or wide AM; Switchable AFC; Precision vernier tuning; 6.5 in. woofer, 2 in. tweeter; Separate bass and treble controls; Volume plus loudness circuitry to boost bass response at low volumes; FM swivel whip antenna and AM ferrite rod antenna + AM/FM external antenna terminals; Headphone jack; Fold down carry handle; Operates on AC power or six D-cell batteries. Dim: 12.75"w x 9"h x 3.25"d; 5 lbs..... GEX 72887 Closeout **$54.99**

2007 PASSPORT to World Band Radio

Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular worldband radios, many antennas, and expanded station address lists. 592 pages. IBS 2007 **$22.95**

We accept I.M.P.A.C.® Government Credit Cards

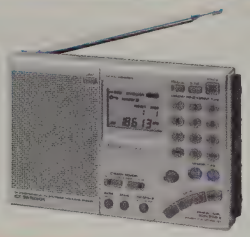
SONY WORLD BAND RADIOS

ICF-SW11 Compact Analog Portable Coverage: LW (141–290 kHz), MW (525–1620 kHz), FM (88–108 MHz) and nine Shortwave Bands: 4.75–5.06, 5.9–6.2, 7.1–7.35, 9.4–9.99, 11.6–12.1, 13.57–13.87, 15.1–15.8, 17.48–17.9 and 21.45 to 21.75 MHz. Easy analog tuning with LED tuning indicator; FM stereo available at headphone jack; 2-1/4 inch speaker; DC input jack; Flip stand; Wrist strap. Uses two "AA" batteries or 3 VDC.
Dim: 6.5"w x 3.75"h x 1.3"d; 12 oz..... **$49.99**

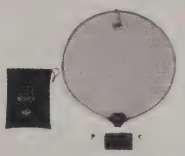
ICF-SW12 Shortwave Analog Clock Radio – For the traveller; compact size and protective lid. Coverage: FM, AM and SW bands (1–9) 4.75–5.06, 5.9–6.2, 7.1–7.35, 9.4–9.99, 11.6–12.1, 13.57–13.87, 15.1–15.8, 17.48–17.9 and 21.45–21.75 MHz. LED Tuning Indicator for precise center-frequency indication and accurate tuning; Bandspread; Sophisticated backlit LCD World Clock display; Built-in alarm with snooze function; Summer time adjustment; Built-in AM ferrite bar and telescopic FM/SW antenna; 1.8 inch speaker; Earphone jack; Shortwave Guide. Uses two "AA" batteries.
Dim: 4.3"w x 3.1"h x 1.2"d; 8.2 oz..... **$89.99**

ICF-SW35 Digital Portable – PLL synthesized, dual conversion superheterodyne (except FM band). Coverage: LW (150–285 kHz), AM (530-1710 kHz), FM (76-108 MHz) and SW (2250 kHz to 26.1 MHz). FM stereo at headphone jack. Tuning via: UP/DOWN buttons, 50 memory presets or automatic memory scan. Memories are in 5 banks of 10 presets each, are non-volatile and retained when changing batteries. Dial illumination button; Sleep button; Lock switch; 9/10 kHz MW step switch; 2.125" speaker; RF attenuator; Tone switch; Stereo earphone jack; Flip-stand. Uses three "AA" batteries or 4.5 VDC. Includes: cloth carry case, wrist strap and Shortwave Guide.
Dim: 6.7"w x 4.5"h x 1.4"d; 16 oz..... **$89.99**

ICF-SW40 Digital/Analog Portable – The accuracy of Digital readout with the intuitive operation of Analog and PLL synthesized. Covers LW, MW (AM), FM bands and SW from 3850 kHz to 26.1 MHz. Normal/Fine tuning (10 kHz/9 kHz) step for AM, 5 kHz step for shortwave and 0.1 MHz for FM. Fine mode tuning steps: 1 kHz (AM/SW) and 0.05 MHz (FM). Backlit LCD display; LED tune indicator; 20 station memory presets; Two position tone control; DX/Local switch; Built-in clock with sleep function and dual standby; Dial lock. Includes cloth case. Requires 3 AA cells or 4.5 VDC. Dim: 6.75"w x 4.25"h x 1.6"d; 15 oz..... Closeout **$89.99**



ICF-SW7600GR General Coverage Portable Dual conversion superhet, microprocessor controlled and PLL synthesized. Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo at headphone jack. Tuning via: 10-key direct access keypad, manual, automatic scan and scanning of 100 memories. SSB/CW reception and AM synchronous detection. Multi-function LCD digital readout; 1/5 kHz step tuning; 9/10 kHz MW step; Dial light and LED "tune" indicator; 24-hour digital dual time clock with sleep timer; Record jack; Tone switch; 3 in. speaker; Keypad lock; External antenna jack; Uses four "AA" cells or 6 VDC. Includes: wind-up antenna, wrist strap, carry case and SW Guide.
Dim: 7.6"w x 4.75"h x 1.3"d; 22 oz..... **$159.99**



AN-LP1
Active Antenna – A flexible 19 in. folding loop receiving antenna with a tunable active controller. A clip and suction cup at the end of the loop allows for convenient placement on windows, etc. Uses two "AA" batteries for about 40 hours of operation **$89.99**

AUDIOVOX XM RADIO TUNERS

CNP-1000 – XM Tuner and Antenna Combo – All you need to provide the full XM experience through any XM Ready radio or system. Simply plug in and activate the service to receive XM's 150+ digital channels. 25 ft. cable included.
Dim: 3"w x 3.6"w x 1.15"d ..... Closeout **$49.99**

NEW **CNP-2000** Mini-Tuner for XM Ready Home Products – Contains the XM Radio tuner needed to deliver XM radio to a wide array of existing XM Ready products including home stereo and home theater systems, DVD players, bookshelf systems, boom boxes, clock radios and portable audio devices. Connectivity to XM ready devices requires the use of the XM Mini-Tuner Home Dock (below), or by plugging directly into XM Ready devices that support docking ports..... **$29.99**

NEW **CNP-2000H** Mini-Tuner Home Dock for XM Ready Home Products – Interfaces to existing and future XM Ready products. Comes complete with the Docking Station, Protective Cover & Window Sill Mount Antenna. The Home Dock comes with a 6 ft. cable for plug and play connector to XM Ready devices. The Window Sill Antenna comes equipped with a 20 ft. cable so that the Home dock can be placed next to the XM Ready device while the antenna is placed in a location line-of-sight to the satellites **$29.99**

ANTENNA SUPERMARKET SHORTWAVE ANTENNAS

EAVES TWIN The Eavesdropper Shortwave Broadcast Receiving Antenna – A 42 ft. long center-fed dipole with 8 automatic bandswitching trap circuits which electrically separate the antenna segments – just tune your receiver to the desired band. The Eavesdropper covers the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60, 75 and 90 meter bands. Includes The *Zap-Trapper*® gas-tube lightning arrestor for receiver protection and 50 ft. of 450-pound test support rope. Completely assembled, ready to use. Comes with 100 ft. of 72 ohm twin lead transmission line..... **$89.99**

EAVES SO239 – Same as the Eavesdropper, but with a weather-proofed SO-239 coaxial connector (coaxial cable not included)..... **$89.99**

AOR LA380 Wide band Active Loop Antenna

A wide range, 10 kHz to 500 MHz single loop active receiving antenna with five selectable presets and ranges and only 1 ft. in diameter. Incorporates a built-in high-gain amplifier 20 dB for 10 kHz to 250 MHz and variable tuning from 3 to 40 MHz and fixed tuning from 60 kHz to 3 MHz and 40 to 50 MHz. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12 VDC or with the supplied AC wall adapter..... **$379.99**

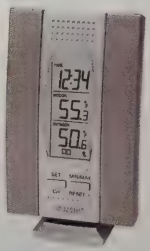
MFJ

8100W Regenerative Receiver – Listen to international shortwave broadcasts and hams on SSB/CW etc. Coverage: All or part of 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15, 13 meters in five bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Uses 9-Volt battery. Requires earphones or plug-in speakers.
Dim: 7"w x 2.5"h x 6"d; 1 lb ..... wired **$99.99**
8100K Same, but in kit form **$69.99**

WEATHER STATIONS, ETC.

WS-3610UCH Touch Screen Weather Station

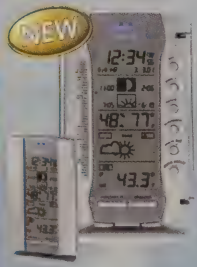
Features a large, illuminated blue LCD Touch Screen that activates with the slightest touch to show all weather data, or the data can be imported to a PC using the included interface cable and software. Three remote sensors: Rainfall, Wind speed and direction, Outdoor temperature/humidity. Records MIN/MAX of readings with time and date stamp. Monitor: 12 or 24 hour Atomic Time and date, Indoor/outdoor temperature/humidity, Rainfall, Wind speed and direction with LCD compass, Wind chill, Dew point, Barometric pressure and tendency, Multiple weather alarms & Forecast icons. Uses (3) AA & (2) C Alkaline batteries.
Dim: 8.75"h x 6"w; desk or wall mount ... **$339.99**



WS-7013BZ Wireless Digital Thermometer

Displays both indoor and outdoor temperatures (°F or °C) simultaneously. Outdoor temperature is transmitted up to 80 ft. to the main unit via the included remote sensor which also has its own display for local viewing at its remote location. Records minimum and maximum temperatures in memory; outdoor temperatures are time stamped. Includes a highly accurate Quartz Digital clock (not an atomic clock). Just install the included remote transmitter, and get both outdoor and indoor temperatures along with the time.
Approx. 4.5" tall, desk or wall mount..... **$21.99**

Note: A remote using lithium batteries should operate down to about -40°F, but the remote display probably fade out at about 0°F. This is normal, and it will reappear when the temperature warms up.



WS-9016TWC Sun/Moon Wireless Weather Station with Outdoor Sensor

Calculates Sun & Moon rise and set times, and Moon Phase for 45 United States cities. Measures indoor and outdoor temperature and indoor humidity level. Weather tendency indicator with forecast icon. Displays precise time and date via atomic clock. Records minimum and maximum outdoor temperature with time and date stamp. Easy-to-use keys are located behind panels. Features the "Weather Channel" logo. Includes one remote sensor. Powered by (4) AA Alkalines. Dim: 4"w x 6.75"h x 1.5"d **$89.99**

WS-7014CH Wireless Weather Forecasting Station

Displays indoor and outdoor temperature plus indoor relative humidity. Graphical weather forecast icons (cloudy, sunny, rain) based on changing air pressure. Outdoor temperature is transmitted up to 82 ft. to the station via an included remote sensor. Includes an atomic time clock that never needs resetting, updating date, date and time daily via the WWVB radio signal from Colorado that is effective in most of the lower 48 states. Uses (4) AA Alkaline batteries. Dim: 5.43"h x 3.54"w x 1.18"d, desk or wall mount **$49.99**

WS-7038UF Digital Wireless Rain Gauge

You can set the high resolution 7 column bargraph to display 7 days, 7 weeks, or 7 months of rainfall history from data received up to 82 ft. away from the remotely located self-emptying rain gauge. Scroll through period by period on graph. Rain alarm function; 12/24-hour manual time set clock. Desk or wall mount. Power: (2) AA and (2) AAA Alkaline batteries. Dim: (receiver) 3.5"w x 4.4"h x .875"d; (remote) 5.25"dia. x 7.25"h **$59.99**

WS-8025AL Wireless Sun/Moon Weather Station

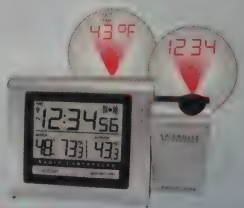
Displays indoor temperature and humidity, outdoor temperature and humidity, and barometric pressure. Shows sunrise and sunset times and moonrise and moonset times for any of 250 North American cities, plus phases of the moon. Accurate 12/24 hour atomic clock with calendar display and alarm with snooze function updates daily from WWVB in Colorado. Outdoor temperature and humidity are transmitted to the station up to 82 ft. away via an included remote sensor. The station keeps a record of the minimum and maximum indoor and outdoor temperatures and humidity it has recorded. Indoor minimum and maximum readings are available at the push of a button. Outdoor minimum and maximum readings are displayed along with the current readings. Weather forecast display by weather icons (sunny, cloudy, rainy). Indoor comfort level indicator with happy and sad face icons. A 30-hour air-pressure history bar graph, and an display of air-pressure changes over the past 2 hours. A storm warning alarm is issued if air pressure drops rapidly over a 6-hour period. Powered by (4) AA Alkaline batteries.
Approx. 10 in tall, desk or wall mount..... **$159.99**

WS-8117U-OAK Digital Atomic Wall Clock

Extra-large digital display shows 12/24-hour Time, Day, Date, Weekday, °F/°C Indoor temperature and Outdoor temperature transmitted to the clock by an included wireless remote thermo sensor located up to 82 ft. away. Clock sets automatically to WWVB radio signal for the most accurate time. Daily alarm setting with snooze function; Calendar display with day abbreviations in choice of English, French, Spanish, or German; 13 time zone settings; Daylight saving time ON/OFF; 8 moon phase icons. Mounts on wall, or extend the integral foldout stand to use it as a freestanding unit on a table or shelf. Both the clock and remote sensor are power by two AA Alkaline batteries (not included).
Dim: (clock) 12.2"w x 8"h x 1.18"d, (remote sensor) 1.57"w x 5.04"h x 0.9"d. Oak finish..... **$39.99**

IR-101 *Infra-Scan* Infrared Thermometer

Allows measuring temperature in just a fraction of a second without touching the object being measured. Useful for contact-free measurement of stationary and moving objects, finding cold spots in a home, checking food, heating and air conditioning, hot components (machinery, engines, etc.) over a wide temperature range from -4°F to +572°F. Single key operation, Backlit LCD. Uses (4) LR-44 button cells (included). Dim: 2.2"w x 0.9"d x 4"h. **$49.99**



WT-5120 Atomic Projection Alarm Clock with Indoor Temperature, Humidity and Wireless Outdoor Temperature

Displays very accurate time, indoor temperature, indoor humidity, plus outdoor temperature on its large LCD display In addition, it projects an alternating pattern of time and outdoor temperature on the ceiling or wall. AC Power Adapter Included.
Dim: 3.6"h x 5.52"w x 1.9"d **$39.99**

- Atomic Time with Manual Setting
- 12 Hour Time Display (hours, minutes, seconds)
- Automatically Updates for Daylight Saving Time
- Time Alarm with Snooze
- Indoor Humidity (%RH)
- Wireless Outdoor Temperature (°F)
- Indoor Temperature (°F)

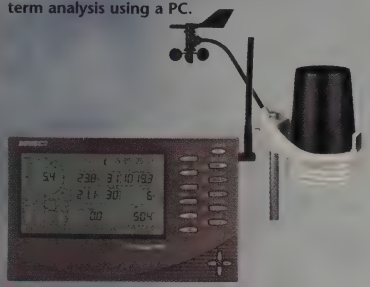
See the Product Locator for Weather Radios

We accept I.M.P.A.C.® Government Credit Cards

DAVIS

WEATHER STATIONS

Professional quality for home, business, or scientific use. Add WeatherLink for detailed, long-term analysis using a PC.



6152 Wireless Vantage Pro2 – It's the first weather station in its price range to use frequency hopping Spread Spectrum radio to transmit and receive data up to 1000 ft. line of sight. It still offers the same great features of Vantage Pro such as forecasting, on-screen graphing, and much more. Quick view icons show the forecast at a glance–sunny, partly sunny, cloudy, rain or snow– while a moving ticker-tape display gives more details. The integrated sensor suite combines a rain collector, temperature and humidity sensors, and anemometer into one package–making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat **$539.99**

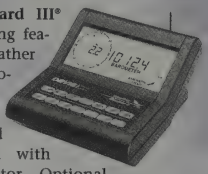
0281 Wind Wizard™ Wind Speed Indicator Accurately measures speed from 0-60 mph in miles per hour, meters per second, and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed. Dim: 3.625" x 2.875" x 1" folded; 2.5 oz . **$49.99**

SOFTWARE

7862 WEATHERLINK® – Links a PC and Perception II, Weather Wizard III, or Weather Monitor II. Create graphs, calculate average conditions, generate summaries, analyze trends, etc. **$149.99**

7440 Weather Monitor II® Shows all weather monitoring functions and clock on a back lit 1.875" x 4.375" LCD display. Temperature readings of –50 to 140°F (outside), 32° to 140°F (inside); Wind calculations, including direction in 1° or 10° increments, wind speed up to 175mph, and high wind speed and wind chill to –134°F; Barometer measuring barometric pressure with memory recall and trend arrow; Indoor high and low humidity from 10%-90% (outside optional); Alarms for temperature, wind speed, wind chill, humidity, time and barometric trends Dim: 5.25" x 5.875" x 3" **$269.99**

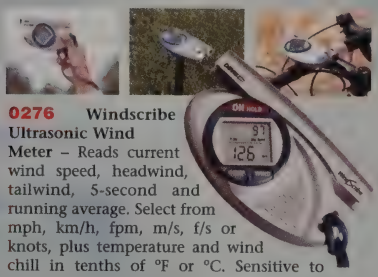
7859 External Temperature/Humidity Sensor For 7440. Measure outside humidity, dew point and temperature. Includes 40 ft. cable .. **$119.99**



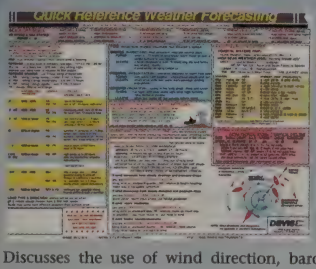
7425 Weather Wizard III® Offers most monitoring features of the Davis Weather Monitor II, except barometric pressure and inside humidity. Measure daily and accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM®-compatible or Mac®. Metric or U.S. Dim: 5.25" x 5.875" x 3"..... **$179.99**

7852 Rain Collector II – For 7440 or 7425. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable **$69.99**

7400 Perception II® – Ideal for keeping track of climate conditions inside the home. No installation required. Looks similar to 7425; Indoor temperature -32°F to 140°F; Barometric pressure with memory recall; Humidity; Alarms for temperature, humidity, time, and barometric change. **$129.99**



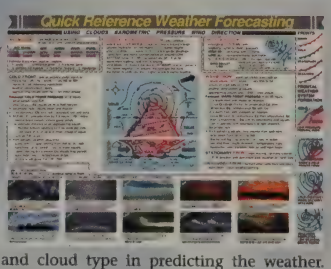
0276 Windscribe Ultrasonic Wind Meter – Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz **$99.99**



DAVIS

Weather Forecasting Quick Reference Card

Side1 Side 2



Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog and other hazardous conditions, and more. Weatherproof, strong plastic, full color. Punched for binder or bulkhead mounting.Dim: 8.5 x 11 in ..... DAV 0131 **$9.99**

MIDLAND

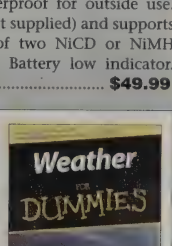
WEATHER RADIOS

WR-300 AM/FM Alarm Clock Radio with 7-Channel Weather/All Hazards – For security, be alert to conditions that affect you. This unit offers Specific Area Message Encoding (S.A.M.E.) technology which preprograms the device to receive only those warnings that apply to your local area. You can choose state, county, and/or nearby counties. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Drift-free PLL and easy-to-read blue, backlit LCD. You get a convenient, 10-alert memory, and can add, edit, and remove unwanted alerts at any time. Operates from the supplied AC power adapter or (4) AA Batteries (not included) **$59.99**

74-250C All-hazard Alert Handheld Weather Radio with S.A.M.E. Technology

Get 24-hour, up-to-the-minute weather and hazardous-conditions information Receives all seven NOAA weather channels and has SAME (Specific Area Message Encoding) technology. Digital panel displays up to 56 messages. Includes a 12/24 hour dual alarm clock with snooze and nine memory settings. Built-in fahrenheit/celsius thermometer with freeze warning alert. Waterproof for outside use. Requires two "AA" cells (not supplied) and supports in-unit battery charging of two NiCD or NiMH "AA" cells (not supplied). Battery low indicator. Only 4"h x 2.75"w x 1"d **$49.99**

Weather for Dummies



Are you dazzled by dramatic displays of thunder and lightning – and wonder why these forces of nature occur? This guide offers easy-to-understand explanations about meteorological concepts, from jet streams to tornadoes and El Niño. Inside, you find experiments and activities you can do at home, plus insight on smog, the greenhouse effect, and more!

WIE WXFORDUMMIES **$21.99**

GARMIN® GPS

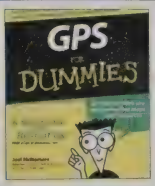
GPS-60 GPS-MAP60 GPS-72

GPS-60 Personal Navigator – A 12 channel GPS receiver with WAAS. Accepts 1 Mb downloaded points of interest from MapSource® CD-ROM. Separate USB and serial port interfaces. Points of Interest data; Stores 500 waypoints and 50 routes; 10,000 points track log to retrace your path; TrakBack™ to a selected point function; Celestial tables for best fish and hunt times; Audible beeper alarm; Up to 28 hours on 2 AA alkaline batteries. Dim: 2.4"w x 7.1"h x 1.3"d **$159.99**

GPS-MAP60 Map Navigator – 12 channel GPS receiver with WAAS. Basemap with automatic turn-by turn routing capability shows cities, interstates, major roads and more. Download 24Mb of data from optional MapSource® CD for greater map detail. Includes MapSource® Trip and Waypoint manager for transferring waypoint, route and track data between your GPS and PC. Stores 500 waypoints and 50 routes; 10,000 point tracklog to retrace your path; TracBack™ to selected point function; Celestial tables for best fish and hunt times; Audible beeper; Up to 28 hours on 2 AA alkaline batteries; Separate USB and serial port interfaces. Dim: 2.4"w x 7.1"h x 1.3"d..... **$269.99**

GPS-72 – A low-cost, but precise land and marine positioning using WAAS data. 500 name and graphic waypoints, 50 reversible routes; Backlit high-contrast, gray-scale display with "large number" option; Latitude/Longitude, UTM, Loran TDs, Maidenhead, MGRS and user grid formats; Arrival, off-course, clock and proximity alarms; 1 MB memory for MapSource data; Trip computer with odometer, stopped time, moving and overall average, total time, maximum speed..... **$149.99**

RINO-120 GPS Enabled Handheld for FRS & GMRS
Communicate up to 2 miles using the FRS radio function, or 5 miles, using GMRS. 14 channels, 38 squelch codes; VOX; Voice scrambler; "Silent" call mode. The 12-channel GPS function provides position accuracy of less than 10 ft. and position reporting using FRS Waypoint storage, TracBack, multiple position formats and built-in trip computer. Basemap of the Americas (major cities, highways, thoroughfares, rivers, lakes, coastlines, borders, and railways); 8MB memory for downloadable cartography from MapSource CD-ROMs; Uses 3 AA's..... **$229.99**



GPS for Dummies
Here's what you need to make the most of your portable GPS unit and of all its amazing features. Venture into new places with confidence, explore the treasure hunting sport called *geocaching*, and much more!
WIE GPSDUMMIES **$21.99**

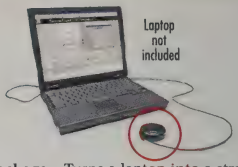
eTREX *(left)* – 12-parallel-channel GPS receiver and internal patch antenna packaged in a waterproof case. Side operating buttons for larger display area. Simple menus and logical operation. Compass or map navigation; Zoom keys; 500 user waypoints; 1 route with 50 waypoints; Resettable trip computer; Auto track log, 10 saved tracks to retrace a path; Up to 22 hours use with (2) AA alkalines. Dim: 4.4"h x 2"w x 1.2"d; 5.3 oz..... **$99.99**

eTREX SUMMIT Hiking Companion *(right)* Similar to the eTrex but includes a barometric altimeter and electronic compass..... **$179.99**

GEKO-201 – Small, lightweight and waterproof. Simple but powerful operating system allows more waypoint and route storage, as well as available PC and external power connectivity, and built-in WAAS capability. Has a configurable trip computer and 10,000 trackpoints, as well as PanTrack™ and TracBack®. 500/20 x 125 waypoint/route storage; Automatic 10 track storage; Five buttons (one-hand use); 64 x 100 pixel, high contrast display; Includes four interactive, outdoor games; 12-hour operation on (2) AAA batteries.
Dim: 3.9"h x 1.9"w x .96"d; 3.1 oz..... **$139.99**

ST PILOT C330

Preloaded with map data for US, Canada and Puerto Rico with all travel information detail you'd ever want. Navigation is easy – just enter an address or pick a destination and the automatic routing and voice prompts take you there. Touch screen operation, with vivid graphics. Vehicle suction cup multi-position mount with with integrated power cord, 12-volt adapter and PC/USB cable. Internal battery for trip planning. Dim: 3.2"h x 4.4"w x 2.8"d. **$449.99**



GPS-18 Package – Turns a laptop into a street navigator using WAAS-enabled GPS sensor. bundled with nRoute™ and City Select® North America with detailed maps of the U.S. and select cities in Canada. Automatically guides with turn-by-turn directions and voice prompt.

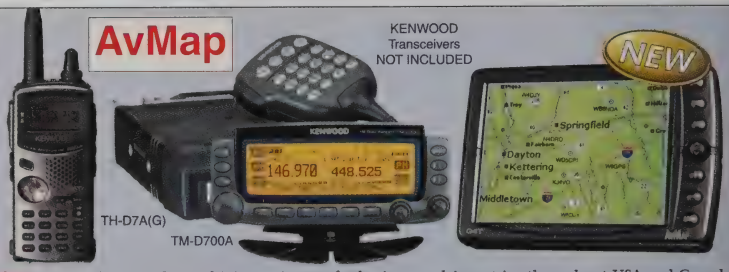
GPS-18PC DLX – Serial connection sensor, 12V cigarette adapter, magnetic base, windshield mount and software. 2.4" dial. x 0.75"h; 6.5 oz.. **$129.99**

GPS-18USB DLX – USB connection sensor, magnetic base, windshield mount and software. Uses PC's power. 2.4" dial. x 0.75"h; 3.5 oz..... **$129.99**

FORETREX 101 FORERUNNR 201

FORETREX 101 Personal GPS Navigator Rugged, lightweight, waterproof and wristband mounted for the sportsman. Provides accurate position data, extensive waypoint storage, reversible routes, track info, and TracBack technology. PC waypoint, route and track management. Uses (2) AAAs, 15 hours of operation.
Dim: 3.3"w x 1.7"h x 0.6"d; 2.6 oz..... **$129.99**

FORERUNNR 201 GPS/Personal Training Device – For athletes, runners and walkers. Calculate speed, distance and pace. Mark locations, look up and navigate to points, retrace or reverse normal route. Downloadable performance-tracking software to analyze activity over time. Transfer data to a PC, for review. Includes wristband, A/C charger with PC interface, manual and quick start guide.
Dim: 3.3"w x 1.7"h x 0.6"d; 2.75 oz..... **$149.99**



G4T Car Navigator – Smart driving assistance for business or leisure trips throughout USA and Canada. The 2 GB Secure Digital is preloaded with USA Tele Atlas high coverage cartography which can be viewed in 2D or 3D mode. On DVD there is a map of Canada that can be downloaded and exchanged with the USA map on the 2 GB SD Card. The G4T is practical and easy to use with built-in Li-ion rechargeable battery, Sirf Star 3 GPS antenna and IR remote control with full alphanumeric keyboard. Consult the map safely thanks to the large and ultra-bright 5 in. LCD TFT display. Video in/Video out – connect your laptop, camera or DVD player to the audio-video input, and you can view pictures and movies on the screen.

Kenwood & AvMap - the Ultimate APRS® Combination

Built with APRS® in mind, the Avmap G4T with supplied interface cable plugs directly into the Kenwood **TM-D700A** or **TH-D7A(G)** TNC radios. This is the ultimate APRS solution out of the box. With built in moving target display, you can see moving APRS® stations (triangle) and fixed stations (circles). Millions of Points of Interest, address look up and many other features make the G4T a perfect personal navigator. Includes mounting options for the dash or windshield, audio/video in cable, IR remote control, power cable, quick start guide, and operators manual. Dim: 5.4"h x 3.9"h x 1.3"d; 13.76 oz..... **$849.99**

WINEGARD®
Clearly the World's Best®

TV ANTENNAS

PROSTAR® 1000 VHF/UHF/FM Antennas Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Protected with polymer finish.

PR-7010 Metropolitan – 22 active elements (9 VHF, 13 UHF); 66.5" boom **$49.99**

PR-7032 Far Suburban – 33 active elements (13 VHF, 20 UHF); 103.25" boom **$79.99**

PR-7042 Fringe *(top)* – 43 active elements (17 VHF, 26 UHF); 149.75" boom **$119.99**

TV CABLE

RG-6 75 ohm TV Coaxial Cable – Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weather-proof F-connectors are installed on each end.

CX-0625 – 25 ft. length **$10.99**
CX-0650 – 50 ft. length..... **15.99**
CX-0675 – 75 ft. length..... **19.99**
CX-6100 – 100 ft. length..... **24.99**

TV-2900 Matching Transformer – Adapts 75 ohm coaxial cable with F-connector to a 300 ohm TV antenna or TV set. Includes F-connector and weatherproof boot **$2.99**

TA-25 Eagle Aspen™ Distribution Amplifier Covers VHF/UHF TV and FM (54 to 890 MHz). Low noise, 25dB gain, 75Ω Switchable FM trap. Lightning protection. Dim: 6"w x 3"h x 1.75"d; 117VAC (4.5W). C/O **$19.99**

ANT-1020 VHF/UHF/FM Indoor Antenna Clean, contemporary design with no-scuff pad to protect cabinet tops. Retractable and adjustable 39-in. elements and UHF loop. Standard 75Ω hook-up cable with "F" connector installed. C/O **$19.99**

velleman inc.

AUDIO/VIDEO SWITCH

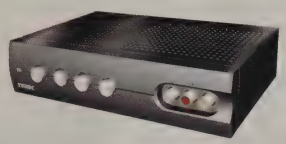
AVW-089 3-Channel Audio/Video Switcher Accepts audio (left/right) and video input from 3 sources switchable to a single output..... **$8.99**

TV ANTENNAS

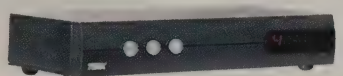
TV-55 Amplified Out/Indoor TV Antenna – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46"w x 3.5"h x 2.25"d..... **$99.99**

HDTV-I Indoor UHF/VHF/HDTV Antenna Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5"w x 9.1"h x 16.5"d; 42" high with dipoles extended.... **$39.99**

AUDIO/VIDEO SWITCHES



MOD-41 RF Modulator – Connect up to four A/V sources to any TV with no available A/V input jacks. Similar to VS4-MOD+ below, without S-Video jacks or IR remote. Dim: 6.5"w x 2"h x 4.25"d ... **$39.99**



VS4-MOD+ RF Modulator – Allows connections of multiple A/V components to a TV with no available A/V (RCA) input jacks. Provides inputs for up to four A/V sources (video games, DVDs, PVRs, VCRs, satellite receivers and camcorders). Converts A/V sources to VHF for viewing on channel 3 or 4 on any TV. Compatible with your IR remote control to remotely switch between A/V sources. Has "F-type" antenna/cable inputs and RCA/S-Video input/output jacks. AC wall adapter included. Dim: 9.75"w x 2"h x 5"d..... **$49.99**

TV VOLUME REGULATOR

VR-1 TV Volume Regulator – Delivers a consistent audio level during commercial breaks, while channel surfing or changing between A/V sources. Advanced DSP automatically adjusts sound levels while noise reduction reduces any 'hiss' present in audio and articulates quiet scenes to a level that you can enjoy. Simply plug and play. Dim: 3.18"w x 3.87"h x 1.43"d..... **$49.99**

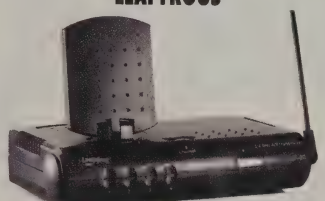
AM/FM ANTENNAS

TOWER AM-FM Tower Antenna *(left)* – Built-in amplifier with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter **$24.99**

ADVANTAGE External AM Antenna *(middle)* Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input..... **$49.99**

PI-B Powered Indoor AM/FM Antenna *(right)* Improves FM (88-108 MHz) reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable position AM loop enhances broadcast band reception. Impedance: (FM) 75/300Ω, (AM) 300Ω. FM Gain control. AC adapter included. Dim: 6"h x 6"w x 1.5"d..... **$49.99**

LEAPFROGS



LF-30S Leapfrog WaveMaster 30 Transmitter/Receiver System – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 1.5"h x 7"w x 4.8"d **$99.99**

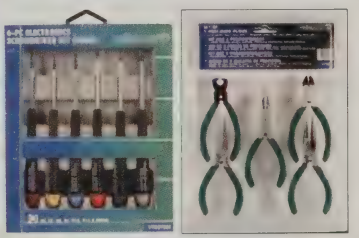
LF-IRX Leap Frog Remote Control Range Extender – Increases range capability of infrared remote controls. Provides the power to operate A/V components through walls and floors up to 100 ft. Operates on 418 MHz for wireless install. Simply plug base in near controllable unit, then plug the receiver in remote location. Cables and AC adapters included. Dim: 5"h x 2.5"w x 4"d..... **$39.99**

We accept I.M.P.A.C.® Government Credit Cards

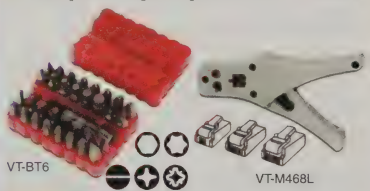
velleman inc. TOOLS & METERS

VTTS 25 Piece Multi-Purpose Toolset – A quality toolset for the electronic engineer and hobbyist. **Includes:** 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in **$9.99**
Bits: (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. **Sockets:** 4, 5, 6 and 8mm 1/4" drive. **Precision screwdrivers:** 4 slotted, 2 Phillips. **Pliers:** 4.5" mini diagonal, 5" mini long nose

VT-SET21N 8-in-1 Screwdriver Set – Includes 4 Phillips and 4 slotted screwdrivers. Each screwdriver fits into the handle for greater torque..... **$4.99**



VT-SET3N 6-Piece Electronics Screwdriver Set Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle **$9.99**
VT-SET Stainless-steel precision Pliers set. 5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers..... **$9.99**



VT-BT6 33 piece Screwdriver Bit Set – Includes **Hex:** #2, 2.5, 3, 4, 5, 6; **Star:** #T10, T15, T20, T25, T30, T40; **Flat:** 3, 4, 5, 6, 7; **Phillips:** 1 PH0, 2 PH1, 2 PH2, 2 PH3; **Pozzi:** 2 PZ1, 3 PZ2, 2 PZ3; **Magnetic bit holder:** 14" hex..... **$6.99**
VT-M468L Crimp Tool – For RJ10, RJ11, RJ45 (4P4C, 6P4C, 8P8C) modular connectors **$9.99**

AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
- Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to to 126dB)
- A and C weighting
- Battery level indicator **$29.99**
- Battery included
- RCA output jack
- Dim: 6.3"h x 2.4"w x 1.7"d; 0.4 lbs

TLM-2 Test Leads – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A..... **$2.99**
TLM-10 Test Probe set – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks..... **$4.99**
K/TF 75-piece cable-tie pack – Contains 25 each of 3.9 in, 4.7 in. and 7.9 in. long ties..... **$2.99**
VT-LAMP2U Magnifier Lamp – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount **$49.99**

DVM-810
Digital Multimeter
Compact design makes this meter a perfect fit for any toolbox or even shirt pocket! It features multiple functions and an easy-to-read LCD display. Measures voltage, current, resistance, transistor and diode, 3.5 digits, 19 ranges. Battery included **$9.99**

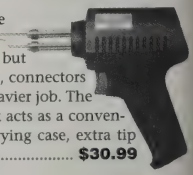
DVM-850BL
Digital Multimeter
Auto polarity function manual ranging mode, data-hold function and 10 Amp overload protection. Measures DC current up to 10A, AC/DC voltage up to 600V, resistance up to 2MΩ. Diode, transistor and continuity test with buzzer. Backlit 3.5-digit LCD. Uses 9V battery (included). Protection holster and test leads. Dim: 2.6"w x 5.4"h x 1.18"d **$19.99**

370052 Digital Multi-Meter – Features a 3.5 digit, 1/2" LCD, with polarity indicator. Measures: DC voltage in 5 ranges, 200mV–600V; AC volts: 200V and 600V; DC current in 5 ranges, 200uA-10A; Resistance in 5 ranges, 200–20k; Diode test shows forward voltage drop; Transistor test shows hFE value. Comes with 100-hour, 9V battery and plug-in test leads. Dim: 2.76"w x 4.96"h x 0.94"d; 6 oz **$19.99**
CL-3 Test Lead Set – Heavy duty, 10-pieces, protected alligator clips on each end. Five different colored pairs, 22 in. long **$8.99**

Weller SOLDERING TOOLS

SP-23LK 25W Soldering Iron Kit – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V .. **$18.99**
W-60P 60W Pencil-Type Soldering Iron – For most circuit work. 0.0625 in., 700°F screwdriver tip. Dim: 71/2 in. long, 2.5 oz., 6 ft. cord, 120V **$68.99**
WP-25 25W Pencil-Type Soldering Iron – For work on delicate electronics. 750°F tip temperature. Dim: 7.875 in. long, 1.75 oz., 4 ft. cord, 120V. **$35.99**
WST2 Pyropen® Jr. – A portable, mini, butane-powered soldering iron. Recharges in seconds from regular cigarette lighter butane (not included). Soldering temperature is adjustable from 392° to 842°F, plus hot blow (806°F) and torch feature (2372°F). Handy pocket clip..... Closeout **$79.99**
WSTA3 Pyropen® Butane Soldering Iron with Case – Light-weight and completely portable. Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing **$99.99**

7200PK Multi-purpose Soldering Gun
Compact, lightweight, but 75 Watts for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC..... **$30.99**



WESD51
50W Adjustable Soldering Station
Offers quick heat-up, and rapid tip recovery. Accurate microprocessor temp. control with an LED display that shows setting and tip temperature from 350 to 850°F. Automatically powers off after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9"w x 4.5"h x 3.6"d; 4 lbs... **$149.99**

WTCPT
60W Temp. Controlled Soldering Station
A ferro-magnetic sensor maintains the tip temperature at 700°F without any adjustments. Closed loop method protects components, ESD safe. Includes: Power unit, iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5"w x 5.94"h x 3.63"d; 4 lbs..... **$119.99**

CHT-100 Weller®Coldheat™ Pro Soldering Tool For the serious hobbyist and professional. Patented ColdHeat™ Pro heats instantly and cools quickly. Cordless – powered by (5) AA alkaline batteries (not included). High/low power settings and soldering capabilities from 12 to 24 gauge wires. Long-life – 700+ joints per set of batteries. Built-in bright white LED light to illuminate your work area, and red "in use" light. Rugged polycarbonate shell and heavy-duty components. Includes, 61° angle chisel tip, protective cap and polycarbonate storage case. Dim: 9.25"l x 2"h x 1"d **$31.99**

WAHL® ELECTRONICS ISO-TIP

7740 Cordless Soldering Iron Kit – Provides tip performance up to 50W and over 700°F. Contains premium NiCad Rechargeable Battery with high-rate charging. Partially discharged it will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips **$52.99**

7971 SolderPro 50 BUTANE Soldering Iron Ready to use within 10 seconds. Adjustable 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip. Dim: 4-3/4 in. long..... **$25.99**

7974 SolderPro 70 BUTANE Soldering Iron Ready to use within 10 seconds. Adjustable 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long ... **$39.99**

velleman® Inc.

Desoldering Pump

The easy way to remove solder from printed circuit boards terminals and wires. Non-stick Teflon® nozzle. Dim: 13.2 in. long.
VEL VT-D2 **$3.99**

Rosin Core Solder

Perfect for all ham radio and other electrical applications. The 60% tin, 40% lead composition, .040" diameter and 374°F melting temperature allows quick and secure connections. Non-corrosive. Comes in a handy 1/2-oz. dispensing tube.
KES 82-5000-0004 **$2.99**

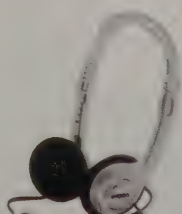
KOSS

QZ/5 Passive Noise Reduction – Isolates listener from noise sources like car and jet engines. Ideal for the race track and metal detection. Unique headstrap velcro design allows for secure fit and immobilization. 60Ω impedance; 102dB SPL/1mW sensitivity; 40 to 20,000 Hz sensitivity; Volume control and Stereo/Mono switch; Single entry, 8 ft. coiled cord with 3.5mm plug; 15 oz..... **$49.99**

QZ/50 Revolutionary Active Noise Reduction Reduces harmful & annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort for extended wearing. Dynamic element, 30-20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses one AAA battery (not included); 2.5 oz **$49.99**

QZ/99 Passive Noise Reduction stereophone with Mono/Stereo Switch – Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4mm plugs; Sensitivity: 102dB SPL/1mW; Impedance: 60Ω; 15 oz..... **$59.99**

QZ/2000 Noise Reduction Stereophone The revolutionary Active Noise Reduction system reduces harmful or annoying low frequencies >15dB SPL from 40-200 Hz, average 10dB SPL from 30 to 1000 Hz. 15-20,000 Hz response with 101 dB SPL/1mW sensitivity; 5kΩ impedance; Straight, dual entry, 4 ft. cord; Control case and collapsible stereophone; Adjustable headband; Input jack for audio play-through and 2-prong adapter for in-flight use; Includes 2 AA's; 2.3 oz.... C/O **$129.99**



KTX/8 Portable Stereophone – Dynamic element for extended frequency response from 40 to 20,000 Hz. Foam ear cushions for open, hear-through sound. Volume control on the cord for easy level adjustment. Collapsible headband design for protective storage and maximum portability. Reliable "L" plug for improved durability and reliability. Straight, single entry 4 ft. cord. **$14.99**

Y-88 "Y" Cord – Delivers dual stereophone connection from a single sound source. "L" plug for improved reliability and durability..... **$4.99**

GROTHE ELECTRONICS

SIRENS & HORNS

VS-2 Emergency Vehicle Siren – For the volunteer fireman. A quality-built wail-yelp alarm that delivers a 120dBa sound level at 4 ft. with a frequency range of 600 to 1200Hz. Pre-wired with a 3-position switch (Yelp-Off-Wail). Includes a waterproof horn speaker, 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs..... **$89.99**

VS-3 Vehicle P/A and Airhorn with Rebroadcast Powerful airhorn sound with 4 different sounds (no siren) Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A..... **$129.99**

VS-4 P/A Emergency Vehicle Siren – Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A over-ride features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A..... **$139.99**

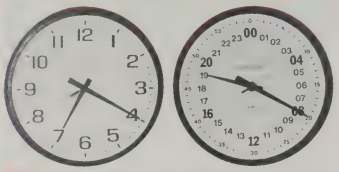
VS-2LS Siren–Light Combo A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light. Special Order... each **$299.99**

HF-24RS Scanner Headphones Designed specifically for racing fans. Listen to driver to pit conversations on a scanner with reduced noise. Snug fit, cushioned headband and comfort fit cushions allow hearing action over crowd and engine noise. Dual volume control to maximize hearing levels; Includes 3.5mm plug with a 10 ft. coiled cord.... **$19.99**

Scancat-Gold for Windows Supports the BEARCAT BC-296, BC-796, BC-250, BC-785, BC-780, BC-245 and BC-895 TrunkTrackers and more than 85 radios from over 10 manufacturers. Proves computer control of conventional operations such as scanning, logging, spectrum analysis etc., plus full trunking. Scancat permits you to selectively load the banks of the radio with all your favorite trunking frequencies and trunking group ID numbers. You can also read the radio's memory contents to files, including conventional trunking information.. SCA GOLDFORWIN C/O **$69.99**

CLOCKS

Benjamin Michael Industries INC

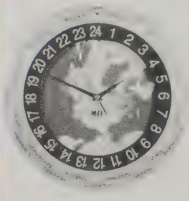


973A – Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" diameter x 1.75"d **$49.99**

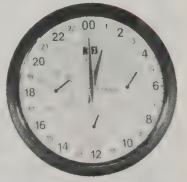
972AD – Same but 12/24 hour dial **$27.99**

MFJ

105C 24 Hour Quartz Wall Clock – Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **$24.99**



115 WORLD Map 24 hour Quartz Wall Clock Set it to GMT and you'll know what time it is in designated areas of the world any time of day. Major cities outline the trim. 12 in. diameter. Uses one "AA" battery (not included)... C/O **$19.99**



125 DXer's Dream 24-hour Quartz Wall Clock 12 in. diameter face shows 24-hour format with smaller day, date and 12 hour indicators. All dials set independently as desired. Uses a single "AA" battery..... **$34.99**

Small 24-Hour Clocks – A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B *(left)* **Single** – 2.25"w x 1"h x 2"d.... **$12.99**

108B *(right)* **Dual** – 4.25"w x 1"h x 2"d.... **$21.99**

112B DX'ers World Map Clock – Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month, date and year. Select 12 or 24 hour time, daylight saving time. Dim: 4.25"w x 3.3"h x 2.25"d **$29.99**

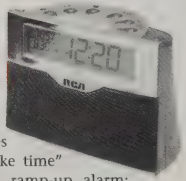
113 12/24 Hour Desk Clock – Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9"w x 4"h x 2.5"d **$19.99**

118 Jumbo LCD™ 24/12-hour Clock 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calender and flip stand. Uses one "AAA" battery. Dim: 5.75"h x 3.375"w x 0.5"d **$29.99**

123 Eternity Atomic Clock™ – Solar powered and automatic time set by radio signals received from WWVB. Large (6.75"w x 2"h) LCD display. Selectable 12/24 hour time format, digital calender. Ordinary room light powers the solar cells and also replenishes a built-in rechargeable battery; also uses (2) "AAA" batteries (not included) for back-up power. Dim: 9"w x 3.5"h **$79.99**

RCA

CLOCK RADIO



RP-3710 Dual Wake Digital Tuning AM/FM Clock Radio

LED display indicates two independent "wake time" readouts. Graduwake™ ramp-up alarm; Large, backlit LCD, brightness control; Snooze; 11 presets; Sleep to one station, wake to another; 9V back-up battery (not included) holds time and alarm settings in memory for 8 hours. Dim: 5.25"w x 4"h x 3.75"d..... Closeout **$19.99**

HOUSE of DEALS

LED Flashlights

NEW

FL-3232T 32-LED Flashlight..... **$24.99**
- Sturdy, metal body
- Dim: 12 x 2-1/4 in.
- Powered by (3) "D" batteries (not included)

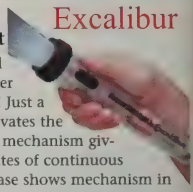
FL-307T 9-LED Pocket Flashlight..... **$9.99**
- Sturdy, 3-5/8 x 1 in. metal body
- Powered by (3) "AAA" batteries (included)

FL-8211B 11-LED head/bicycle Lamp..... **$9.99**
- 2 Red blinking LED's
- Wide beam
- Adjustable head strap & bicycle attachment
- Dim: 2-3/4"w x 2"h x 4"d
- Powered by (3) "AAA" batteries (included)

H-422

Forever Flashlight

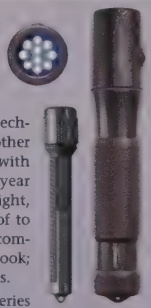
Excalibur



The last flashlight you'll ever need to buy! It never needs batteries or bulbs! Just a 30-SECOND SHAKE activates the electromagnet charging mechanism giving you up to five minutes of continuous bright light. The clear case shows mechanism in operation. Super bright LED is visible for up to one mile. Great for cars, boats, campers and emergency kits. Waterproof and it floats in water. Dim: 10.5" long x 1.5" dia; 12 oz..... **$29.99**

H-423 Micro Forever Flashlight – Same features and operations as the H-422, but smaller. Dim: 7.375" long x 1" dia.; 5.6 oz..... **$24.99**

Lightwave



Modern flashlights using LED technology. Lights an area like no other flashlight! 25-day batteries (with diminishing brightness); 11-year (typical), solid-state LED's; Bright, diffused white light; Waterproof to 2'; Shock-proof, high impact composite case with lanyard and hook; 3 year warranty, including LEDs.

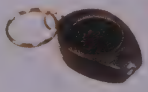
LW-2000 LW-4000

LW-2000 – 3 AA alkaline batteries (included) power 4 LEDs. Dim: 7.75" long, 1.25" diameter..... **$29.99**

LW-4000 – 3 D alkalines (not included) power 10 LEDs. Dim: 10.75" long, 2" dia. **$59.99**

LW-3000 – Like LW-4000, but smaller. 3 C alkalines (not included) power 7 LEDs. Dim: 8.75" long, 1.625" dia **$49.99**

LW-HT Illuminator™ Head Torch – 1"-wide adjustable strapping secures light to the head. Up/down adjustable. 4 high-intensity LEDs powered by 3 AA batteries (not included) provide super-bright light visible for over one mile, over 330 hours..... **$39.99**



LW-PB PocketBright™ Flashlight – Includes key ring, neck lanyard and velcro patches. Single, high-intensity LED, powered by 2 included Lithium batteries, provides over 50 hours of light that can be seen across a full-sized room..... **$19.99**

velleman Inc. ELECTRONIC LAB KITS

Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for easy project construction • No experience required!

30 in 1 ELECTRONIC LAB KIT

Kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more ..... **VEL EL-301 $39.99**

130 in 1 ELECTRONIC LAB KIT

Built a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls ..... **VEL EL-1301 $89.99**

300 in 1 ELECTRONIC LAB KIT

300 exciting electronic projects: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more ..... **VEL EL-3001 $129.99**

The **Sticky Pad** holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

STI 13810 – Dim: 7.25 in. x 4.13 in **$5.99**

STI 13820 – Dim: 8.75 in. x 6.875 in **$9.99**

BOUNTY HUNTER® METAL DETECTORS

METAL DETECTORS

LAND STAR

Boasts more features than other costly detectors. Includes a Bounty D-Tech™ open-face search coil, advanced microprocessor electronics, 3-tone discrimination and Ground Trac® retune. A multi-function LCD and touchpad control make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or let "Auto Notch" detect coins 12 in. deep.. **$349.99**

FAST TRACKER

Newcomers to treasure hunting should not be shortchanged when it comes to features – or quality. That's why there's the Fast Tracker™. It offers 7 in. Bounty D-Tech™ search coil (adjustable angle), dual-tone audio discrimination, motion all-metals mode, auto ground balance, low-battery alert, built-in speaker, headphone jack, and lightweight S-rod comfort-grip handle with stand **$99.99**

SHARP SHOOT II

Treasures missed by generations won't escape the Sharp Shooter II™. Digital LCD, touchpad control, and interchangeable Bounty D-Tech™ search coil. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker **$299.99**

TRACKER IV

The optimum combination of power, ease-of-use, affordability, and big finds every time. The Tracker IV™ is built with a fully-submersible 8 in. Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features three different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination . **$129.99**

LAND RANGER

Offers many high-end features for the serious detectorist. Designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8 in. waterproof, interchangeable search coil and SmartTrac® ground control **$449.99**

QUICK DRAW II

The Bounty Hunter Quick Draw II™ metal detector packs many powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, three levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10 in. deep and larger objects up to 5 ft..... **$229.99**

TIME RANGER

Recover more relics and valuables from the past then ever before. The Time Ranger's powerful circuitry and smooth operation combine to deliver absolute performance. The innovative Sniff-Mode can be used in specialized applications when rejection or acceptance of a particular object is desired **$549.99**

BOUNTY HUNTER ACCESSORIES

CARRY BAG Padded Carrying Case – Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket **$29.99**

10" COIL 10-inch Magnum Coil – Adds extra depth for relic and cache hunting **$49.99**

Order Now Toll Free from any AES Location

BUSHNELL

Bushnell makes it easy to accurately measure speed with the Velocity™ speed gun. Very easy to use with its point-and-shoot operation. The Velocity™ speed gun boasts ±1.0mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Velocity™ gun has a 6–110mph range for baseball, softball and tennis. It also has a 6–200mph range for auto racing.

10-1911 Velocity™ Speed Gun – Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ± 1 mph accuracy; Operates on two "C" batteries.
Dim: 4.3" x 8.4" x 6"; 13 oz..... **$99.99**

908 Talking Electronic Chess Computer

Go up against this chess pro for a challenging game! Magnetic board and chess pieces – pieces store conveniently in compartment under board. Expert strength – estimated 2000 rating; Speaks to player in English, French and German. Includes special teaching and coaching features. 136 selectable levels from beginner to expert. Easy-to-read LCD shows how much time each player has on dual clocks, every move for both player and computer, move counter, automatic scoring, and info mode (what computer is "thinking"). Auto shut-off with memory save; selectable opening lines for play and learning, and lots more; operates on 3 AA batteries. Dim: 12"w x 1"h x 9.98"d; 1.75 lbs..... **$59.99**

AMATEUR ELECTRONIC SUPPLY® 5710 W. Good Hope Road • Milwaukee, WI 53223

Local: **(414) 358-0333** • *Toll Free:* **(800) 558-0411** • *24-hour FAX:* **(414) 358-3337** • *Online:* www.aesham.com • *E-Mail:* info@aesham.com

Salesperson's Name _____

Account No. _____ Date _____

Name _____ Call _____

Address _____

City/State _____ Zip _____

E-Mail Address: _____ Fax: _____

Phone No. (Home) ( ) _____ Hours: _____

Phone No. (Work) ( ) _____ Hours: _____

SHIP TO *(If other than at left):*

_____

_____

_____

_____

IF YOU HAVE MOVED since your last order, please show your old address:

_____

_____

QTY.	MANUFACTURER	PART OR MODEL # • DESCRIPTION	PRICE EACH	TOTAL

PLEASE CALL ANY LOCATION TO CONFIRM PRICING — **TOTAL AMOUNT OF ORDER** $

LINE 1 — TRADE-IN Allowance (if any) *Enclose mail quotation or reference telephone quote & list Trade-in items on line provided below.* -

IMPORTANT! Persons having a Trade-in must check one of the following: (Also, see more important information on previous page and on Policies page.)

- ❑ Hold this order until you receive and approve my trade-in.
- ❑ Payment in-full enclosed. Refund allowance when my trade-in is received and approved.
- ❑ Charge the FULL AMOUNT of my order to my Charge Card and Credit my trade-in allowance when my trade-in is received and approved.

LINE 2 — Shipping Charges We ship via **UPS Ground** at *flat-rate* shown on next page, except to APO/FPO made via Priority Mail. +

For Faster Service select one of the following: (These methods are not flat-rated so allow for increased shipping charges - no flat-rate credit.)

❒ UPS Next Day Air (Red) ❒ 2nd Day Air (Blue) ❒ 3-Day Select (Orange) ❒ Fed Ex ❒ Fed Ex Home ❒ Express Mail ❒ Priority Mail

Shipping Charges are taxable in WI, FL, NV & OH

LINE 3 — Sales Tax: ❑ WI- 5.6%, ❑ FL- 6.5%, ❑ NV- 7.75%, ❑ OH- 6.25% *For Ohio & Nevada figure tax before subtracting trade-in allowance* +

LINE 4 — Credits: AES Refund Checks, Gift Certificates or Manufacturer's Coupons (if any) -

CREDIT CARD INFORMATION

We accept I.M.P.A.C.® Government Credit Cards

Account Number

Cardholder's Name — CARD EXPIRES

Cardholder's Signature — Date

LINE 5 — Balance $

LINE 6 — Due AES from previous order (if any) +

TOTAL AMOUNT DUE $

Choose payment method from below: (Fill in information at right, if applicable)

❒ Bank transfer ❒ Certified check ❒ Personal check ❒ Money order

DO NOT MAIL CURRENCY. Send bank check or money order. Personal check may delay shipping until it clears our bank. Attach remittance to top of order blank.

❒ Credit card (VISA, MasterCard, Discover, American Express, IMPAC)

❒ COD $8.50 fee per package. *Money Order or Certified Check Only. MINIMUM $20.00 COD ORDER – NO AIR OR PARCEL POST COD's*

AMOUNT ENCLOSED -

BALANCE DUE (IF ANY) $

BANK TRANSFER INFORMATION

M&I Marshall & Ilsley Bank, 770 North Water Street, Milwaukee, WI 53202 ABA #075000051. Credit to account #00244-15017 in the name of Amateur Electronic Supply. Swiftcode: MARLUS44. Make sure to include the name under which the order was submitted.

Cut along dotted line or make Photocopy

COD ORDERS
Minimum COD order is $20.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a $8.50 COD fee per package applies. Payment by money order or certified check only, not cash.

DAMAGED ITEMS
If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY**. The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS
Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. Canadians please see *"Canadians Note:"* under TRADE-INS.

INTERNET ORDERS
The customer may order products directly on our web site via our internet order form. If the customer does not have access to the web please call in or mail your order to any AES location. Make sure the following information is included: full name, callsign (not required to order), phone number, billing address, shipping address, item(s) to be purchased (model number and manufacturer) and method of payment. If paying by credit card, we need the card number and expiration date.

PAYMENT
Accepted forms of payment are electronic bank transfer (add $30.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING
We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc.; prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. **AES** is not responsible for typographical errors or omissions.

REFUNDS
Amounts under $5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS
In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee.** The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see *"Canadians Note:"* under TRADE-INS.

PACKING FOR SERVICE AND/OR RETURN
When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send your package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

SHIPPING
Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders will not affect the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches, due to various reasons. In this case, AES will ship the order from a location that has the needed item.

TRADE-INS - CALL BEFORE SENDING
Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

BIDS & PURCHASE ORDERS
AES accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.® charge cards. For more information please contact AES – Toll Free: 1-800-558-0411, Local: 414-358-0333, Fax: 414-358-3337 or info@aesham.com.

SPECIAL ORDERS
Occasionally manufacturers offer items that AES doesn't stock. However, we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

INTERNATIONAL ORDERS
AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via bank wire transfer. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details. All international regulations apply.

FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to $100.00	$4.99
$100.01 to $500.00	$9.99
$500.01 to $1499.99	$14.99
$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii

Flat Rate Advantage – No Penalty for Number of Cartons or Weight!

UPS cannot deliver to PO Boxes

Our Experienced Sales Staff at your Service...

MILWAUKEE, WI 414-358-0333 • 1-800-558-0411

CARL W9CLH

GARY L. KA9YTB

PAUL W9KHO

JIM WJ9P

TOM W9TJP
National Sales Manager

JEFF N9EDQ
Assistant Manager

JOEL NF9K

RAY W9KHH

GREG K9XBX

CLEVELAND, OH 440-585-7388 • 1-800-321-3594

BEN AA8AH
Store Manager

ALEX K8EUR
Assistant Manager

KIPP N2JAF

PHILLIP KB8GA

MIKE KC8NMW

LAS VEGAS, NV 702-647-3114 • 1-800-634-6227

LUKE KK7XX
Store Manager

JULIO KP4UZ
Assistant Manager
Hablo español
Ich spreche Deutsch

CHUCK K3CEC

SQUEAK AD7K

ART K7ZE

ORLANDO, FL 407-894-3238 • 1-800-327-1917

CHARITY KF4RQY
Store Manager

GRANT K4IQW
Assistant Manager

EDDIE KD4RAZ
Hablo español

ERNIE K1HO

GEORGE K2WO

JIM AA9LW

CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.

MILES, K9HMQ (SERVICE MANAGER)
(Milwaukee Store)

RICK, WB9HKE
(Milwaukee Store)

RAUL, W2FR
(Orlando Store)

Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087.

Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service", and always adequately insure your items.

Labor Rates

- $60 per hour for Out-Of-Warranty Service
- $80 minimum on HF/VHF Base Stations
- $60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

SHIPPING INFORMATION

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to $100.00	$4.99
$100.01 to $500.00	$9.99
$500.01 to $1499.99	$14.99
$1500.00 & UP	PREPAID

Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii

Flat Rate Advantage – No Penalty for Number of Cartons or Weight!

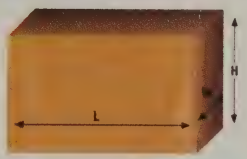
EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

Please see Policies Page for complete information.

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service.



Domestic Air: $\frac{L \times W \times H}{194}$ = Dimensional Weight

International Air: $\frac{L \times W \times H}{166}$ = Dimensional Weight

Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.

We Invite You to Visit the Nearest AES® Location

All Store Hours: Monday–Friday • 9am to 5:30pm, Saturday • 9am to 3pm

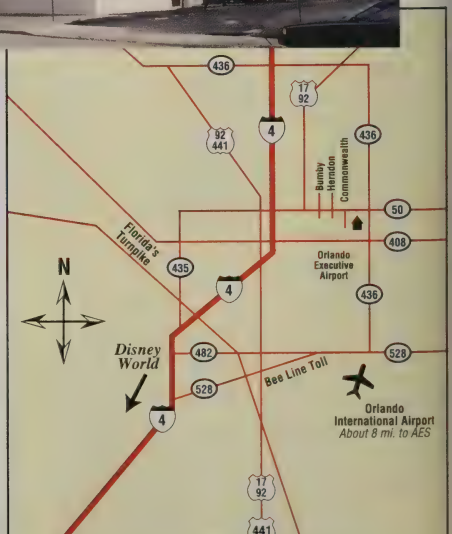
MILWAUKEE, WISCONSIN

5710 W. Good Hope Rd. • 414-358-0333 • 1-800-558-0411

CLEVELAND, OHIO

28940 Euclid Ave. • 440-585-7388 • 1-800-321-3594

ORLANDO, FLORIDA



621 Commonwealth Ave. • 407-894-3238 • 1-800-327-1917

LAS VEGAS, NEVADA

4640 South Polaris Ave. • 702-647-3114 • 1-800-634-6227

ALINCO (HAM DISTRIBUTORS)
1775 North Loop 336 East, Suite 8
Conroe, TX 77301
936-649-1497 • fax: 936-649-1303
info@hamdistributors.com

ALPHA DELTA
P.O. Box 620
Manchester, KY 40962
606-598-2029 • fax: 606-598-4413
sales-info@alphadeltacom.com

AMERICAN RADIO RELAY LEAGUE
225 Main St.
Newington, CT 06111
860-594-0200 • fax: 860-594-0259
hq@arrl.org

ANTENEX
2000-205 Bloomingdale Rd.
Glendale Heights, IL 60139
630-351-9007 • fax: 630-351-9009
customercare@antenex.com

ARROW ANTENNAS
911 E. Fox Farm Road #2
Cheyenne, WY 82007
307-638-2369
arrowantennas.com

AOR U.S.A
20655 S. Western Ave. Suite 112
Torrance, CA 90501
310-787-8615 • fax: 310-787-8619
info@aorusa.com

ASTRON CORPORATION
9 Autry
Irvine, CA 92618
949-458-7277 • fax: 949-458-0826
sales@astroncorp.com

BARKER & WILLIAMSON (B&W)
603 Cidco Road
Cocoa, FL 32926
321-639-1510 • fax: 321-639-2545
tech@bwantennas.com

BENCHER/ BUTTERNUT
241 Depot Street
Antioch, IL 60002
847-838-3195 • fax: 847-838-3479
bencher@bencher.com

BILAL COMPANY (ISOTRON ANTENNAS)
137 Manchester Drive
Florissant, CO 80816
719-687-0650 phone/fax
www.isotronantennas.com

CABLE X-PERTS
P.O. Box 193
Lincolnshire, IL 60069
800-828-3340 • fax: 847-276-2577
info@cablexperts.com

COMET ANTENNA See – NCG Co.

COMMUNICATIONS SPECIALISTS
426 West Taft Ave.
Orange, CA 92865
800-854-0547 • fax: 800-850-0547
sales@com-spec.com

CONNECT SYSTEMS
1802 Eastman Ave Suite 116
Ventura, CA 93003
805-642-7184 • fax: 805-642-7271
sales@connectsystems.com

CUSHCRAFT CORPORATION
48 Perimeter Road
Manchester, NH 03108
603-627-7877 • fax: 603-627-1764
techsup@cushcraft.com

DAVIS INSTRUMENTS
3465 Diablo Ave.
Hayward, CA 94545
510-732-9229 • fax: 510-670-0589
support@davisnet.com

DCI DIGITAL COMMUNICATIONS
20 South Plains Road
Emerald Park, SK, Canada - S4L 1B7
800-563-5351 • fax: 306-781-2008
dci@dci.ca

DIAMOND ANTENNA/RF PARTS
435 So. Pacific St.
San Marcos, CA 92078
760-744-0900 • fax: 760-744-1943
diamondantenna@rfparts.com

GAP ANTENNA PRODUCTS
99 North Willow St.
Fellsmere, FL 32948
772-571-9922 • fax: 772-571-9988
contact@gapantenna.com

GARMIN USA
1200 E. 151st Street
Olathe, KS 66062
800-800-1020 • fax: 913-397-8282

GLEN MARTIN ENGINEERING
13620 Old Hwy 40
Boonville, MO 65233
800-486-1223 • fax: 775-490-1300
info@glenmartin.com

GRUNDIG/ETON
1015 Corporation Way
Palo Alto, CA 94303
800-872-2228 • fax: 650-903-3867
info@grundig.com

HAL COMMUNICATIONS
P.O. Box 365
Urbana, IL 61803
217-367-7373 • fax: 217-367-1701
halcomm@halcomm.com

HARGER LIGHTNING & GROUNDING
301 Ziegler Drive
Grayslake, IL 60030
800-842-7437 • fax: 847-548-8755
hargersales@harger.com

HEIL SOUND
5800 N. Illinois
Fairview Heights, IL 62208
618-257-3000 • fax: 618-257-3001
info@heilsound.com

HUSTLER (NEW-TRONICS)
One Newtronics Place
Mineral Wells, TX 76067
940-325-1386 • fax: 940-328-1409
service@new-tronics.com

ICOM AMERICA
2380 116th Avenue N.E.
Bellevue, WA 98004
425-454-8155 • fax: 425-454-1509
amateur@icomamerica.com

ICOM SERVICE CENTER – MICHIGAN
1792 Nash Drive.
St. Joseph, MI 49085
269-429-2334

ICOM SERVICE CENTER – SOUTH EAST
1140 Watkins Road
Anderson, SC 29625
864-222-3539 • fax: 864-222-3538

KANTRONICS
3115 West 6th. St. Suite A
Lawrence, KS 66049
785-842-7745 • fax: 785-842-2031
service@kantronics.com

KENWOOD COMMUNICATIONS
P.O. Box 22745
Long Beach, CA 90801-5745
310-639-4200 • fax: 310-537-8235
kcc-amateur@kenwoodusa.com
www.kenwood.net

KENWOOD SERVICE CENTER-WEST
17300 Marquardt Ave.
Cerritos, CA 90703-1023
562-483-8740 • fax: 562-483-8749

KENWOOD SERVICE CENTER-EAST
829 Lynnhaven Parkway, #130
Virginia Beach, VA 23452
757-340-1702 • fax: 757-340-6809

LDG ELECTRONICS
1445 Parran Rd. P.O. Box 48
St. Leonard, MD 20685
410-586-2177 • fax: 410-586-8475
ldg@ldgelectronics.com

LARSEN ANTENNA TECH./RADIALL
3611 NE 112th Ave.
Vancouver, WA 98682
360-944-7551 • fax: 360-944-7556
info@radialllarsen.com

M2 ANTENNAS
4402 N. Selland Ave.
Fresno, CA 93722
559-432-8873 • fax: 559-432-3059
www.m2inc.com

MFJ ENTERPRISES (AMERITRON, HY-GAIN, MIRAGE, VECTRONICS)
300 Industrial Park Rd.
Starkville, MS 39759
800-647-1800 • fax: 662-323-6551
mfjcustserv@mfjenterprises.com

(AMERITRON) 662-323-8211
ameritron@ameritron.com

(HY-GAIN) 662-323-9538
hygain@mfjenterprises.com

(MIRAGE) 662-323-8287
mfjcustserv@mirageamp.com

(VECTRONICS) 662-323-5800
mfjcustserv@vectronics.com

MAHA COMMUNICATIONS
1647 Yaeger Ave.
La Verne, CA 91750
800-376-9992 • fax: 909-392-1035
www.mahaenergy.com

NCG CO. (COMET, DAIWA, MALDOL)
1275 North Grove St.
Anaheim, CA 92806
800-962-2611 • fax: 714-630-7024
sales@natcommgroup.com

NCS (NEW COMM. SOLUTIONS)
5364 Valley Mist Trace Suite 101
Norcross, GA 30092
888-883-5788 phone/fax
ncs@ncsradio.com

OUTBACKER NORTH AMERICA/KENT
214 Second St.
Manchester, KY 40962
888-302-8777
information@outbackerantennas.com

PALOMAR ENGINEERS
P.O. Box 462222
Escondido, CA 92046
760-747-3343 • fax: 760-747-3346
info@palomar-engineers.com

PALSTAR
9676 N. Looney Road
Piqua, OH 45356
800-773-7931 • fax: 937-773-8003
info@palstar.com

RADIOWAVZ
607 Blue Cove Terace
Lake Saint Louis, MO 63367
636-265-0448 • fax: 866-201-0593
www.radiowavz.com

SGC
13737 S.E. 26 St.
Bellevue, WA 98005
800-259-7331 • fax: 425-746-6384
sgc@sgcworld.com

SMILEY ANTENNA CO.
408 La Cresta Heights Rd.
El Cajon, CA 92021
619-579-8916 • fax: 619-579-8598
bill@htantennas.com

SONY
1200 N. Arlington
Itasca, IL 60143
630-773-6000 • fax: 630-773-7695

TIMES MICROWAVE SYSTEMS
358 Hall Ave
Wallingford, CT 06492
800-TMS-COAX • fax: 203-949-8423
jlanoue@timesmicrowave.com

TIMEWAVE TECHNOLOGY
1025 Selby Ave., Suite 101
St. Paul, MN 55104
651-489-5080 • fax: 651-489-5066
techsupport@timewave.com

UNIDEN
4700 Amon Carter Blvd
Fort Worth, TX 76155
800-297-1023 • fax: 817-858-3333
www.uniden.com

UNIFIED MICROSYSTEMS
3310 Bonnie Lane / P.O. Box 133-W
Slinger, WI 53086
262-644-9036 phone/fax
w9xt@unifiedmicro.com

UNIVERSAL MANUFACTURING
43900 Groesbeck Hwy.
Clinton Township, MI 48036
800-542-3450 • fax: 586-463-2964

US TOWER CORPORATION
1099 W. Ropes avenue
Woodlake, CA 93286
or 702 E. North St.
Lincoln, KS 67455
559-564-6000 • fax: 559-564-6011
www.ustower.com

VIBROPLEX
11 E. Midtown Park
Mobile, AL 36606-4141
251-478-8873 • fax: 251-476-0465
vibroplex@vibroplex.com

W4RT ELECTRONICS
3077-K Leeman Ferry Rd
Huntsville, AL 35801
info@w4rt.com
fax: 256-880-3866

W5YI GROUP
P.O. Box 565101
Dallas, TX 75356
817-274-0400 • fax: 817-860-3800
admin@w5yi.org

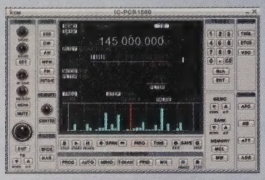
WEST MOUNTAIN RADIO
18 Sheehan Avenue
Norwalk, CT 06854
www.westmountainradio.com
203-853-8080 • fax: 203-299-0232

YAESU (VERTEX STANDARD)
10900 Walker Street
Cypress, CA 90630
714-827-7600
customerservice@vxstdusa.com

LINKS TO OTHER MANUFACTURERS' SITES AT
WWW.AESHAM.COM
AES SERVICE
414-358-4087

PCR1500

THE WHOLE WORLD IN A LITTLE BLACK BOX.



- Single Receiver
- Frequency Coverage: 0.01 to 3299.999 MHz
  Modes: AM, FM, WFM, USB, LSB, CW
- Single Antenna Port
- Three Operating Screen Options
- Unlimited Memory Channels
- PCR Digital Record

PCR2500

DUAL RECEIVERS IN ONE BOX. DOUBLE YOUR FUN.

- Dual Receiver
- 0.01 to 3299.999 MHz (Main), 50 to 1300 (Sub)
  Main Receiver: AM, FM, WFM, SSB, CW, DV and P25
  Sub Receiver: AM, FM and WFM
- Dual Antenna Ports
- Standard DualWatch
- Dual Receiver Diversity
- Three Operating Screen Options
- D-Star Compatible (Option UT-118)
- P25 (Option UT-122)
- Unlimited Memory Channels
- PCR Digital Record

R1500

- Single Receiver
- Frequency Coverage: 0.01 to 3299.999 MHz
  Modes: AM, FM, WFM, USB, LSB, CW
- Single Antenna Port
- Single Display
- 1000 Memory Channels
- PCR Upgradeable

R2500

- Dual Receiver
- 0.01 to 3299.999 MHz (Main), 50 to 1300 (Sub)
  Main Receiver: AM, FM, WFM, SSB, CW, DV and P25
  Sub Receiver: AM, FM and WFM
- Dual Antenna Ports
- Dual Receiver Diversity
- D-Star Compatible (Option UT-118)
- P25 (Option UT-122)
- Dual Display
- 1000 Memory Channels
- PCR Upgradeable

Shown: the R1500 and its contents. A printed owners manual (not shown) is also included.

NEW R1500 AND R2500: THE WORLD TO GO!

No PC required! Nearly identical to their PCR-named cousins, the R1500 and R2500 each come with a remote control head. The remote head offers control over most features for mobile use, but for full usability choose to operate via a PC! Please note that the remote head is not an option for the PCR series.

Podcasting, anyone?

Icom's new PC-controlled black box receiver has wide spectrum coverage, USB connectivity, and .wav file recordability. Save your favorite radio programs for personal Podcasts!

R1500
PCR1500
NEW R2500
NEW PCR2500

DSP CAPABLE

By installing the optional UT-106 DSP unit, you've added noise reduction to improve the S/N ratio, an automatic notch filter to automatically cut beat interference, and even more DSP functions pull out the weak signals and provide superior receive quality!

PC CONTROL WIDEBAND RECEIVER

Control of all functions is only a mouse click away! 0.01–3299.999MHz* in all modes . 1Hz fine tuning resolution is available in all bands. (*cellular blocked. 0.495–1300MHz only in SSB and CW modes)

USB CABLE CONNECTION

USB cable provides higher data transmission speed than a RS-232C cable and improves operation "response and feeling". Record and store .wav files on your PC via the USB, too.

NEW SOFTWARE FUNCTIONS

SCAN AT UP TO 60 CHANNELS PER SECOND*

Auto memory write scan searches for a signal, and when detected, the received frequency is automatically stored into an auto memory write channel bank.

*Depending on PC's capability. Tuning step is 100kHz or less in program scan mode.

UNLIMITED NUMBER OF MEMORY CHANNELS

Memory channels are stored in the connected PC's hard disk or other storage devices. Therefore the number of memories is only limited by your available memory space.

MULTI CHANNEL MONITOR

Catch the status of up to 25 channels - at a glance! Channel activity is indicated by S-meter level and one of three colors: Red = heavy activity, light gray = moderate, and dark gray = try back later, or use optional DSP to pull out that weak signal. Click on the color and start listening to that channel!

AND EVEN MORE...

PLAY AUDIO THRU YOUR COMPUTER SOUND CARD

IMPORT /EXPORT MEMORY CHANNELS AS .CSV FILES

VSC, CTCSS, DTCS TONE AND S-METER SQUELCH FIGHT UNWANTED NOISE

The VSC (voice squelch control) opens the squelch only when a modulated signal is detected. The VSC ignores unmodulated, beat noise signals. The CTCSS and DTCS tones provide quiet stand-by while waiting for a matched tone signal. In addition to a regular noise squelch system, the S-meter squelch releases the AF mute, when only signals stronger than the preset S-meter level are received.

ICOM®

©2006 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 8784

AES
Amateur Electronic Supply

- Over 49 Years in Amateur Radio
- Knowledgeable Staff
- Complete Inventories
- Competitive Pricing
- Top Trades & Quality Used Gear
- Service Department

1-800-558-0411
www.aesham.com

AMATEUR ELECTRONIC SUPPLY
5710 W. Good Hope Rd.
Milwaukee, WI 53223

PRSRT STD
U.S POSTAGE
PAID
Permit #73
Milwaukee, WI

GOODBYE, W32.
HELLO, 91A/AD!

(Actual Size)

ANALOG.

IC-91A

Analog/Digital Upgradeable
2M/70CM @ 5W
Wide Band Receiver w/Dual Watch
495kHz - 999.990MHz* RX
1300 Alphanumeric Memories
Weather Alert
Optional D-STAR Digital Voice & Data

DIGITAL.

IC-91AD

Analog and Digital Ready
All the IC-91A Features *Plus:*
D-STAR Digital Voice & Data Ready
One Touch Reply
Voice Recorder & Auto Reply Message
Position Exchange
DX Communication Via the D-STAR System
(2M & 70CM D-STAR Repeaters now available at your authorized Icom dealer)

Now available! Call or visit AES today!

*824-849, 869-894 (approximately) Blocked. ©2006 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All specifications are subject to change without notice or obligation. 8788

ICOM